

Document # MG2.SYS.006	Effective: 30JUL2021
Revision # 1.0	Page 1 of 6

Title: Moxi GO II – 21 CFR Part 11 Compliance Statement



21 CFR Part 11 – Electronic Records; Electronic Signatures

Moxi GO II – Firmware version 2.12 Compliance Statement

		Rule	
Section	Description	Overview	Moxi GO II Compliance
11.3	Definitions		
11.3 (4)	Closed system means an environment in which system access is controlled by persons who are responsible for the content of electronic records that are on the system.	definition	The Moxi GO II is a self-contained system with its own operating system (OS). There's no need for an external system (e.g. laptop) to control it and there's no networking connections to allow unauthorized external access. System and data access is entirely controlled by the system interface, via the user login and roles/privileges functionality. As such, the Moxi GO II qualifies as a closed system.
11.10	Controls for Closed Systems		
11.10 (a)	Validation of systems to ensure accuracy, reliability, consistent intended performance, and the ability to discern invalid or altered records.		The Moxi GO II firmware is validated internally to ensure intended function, performance, and compliance to the 21 CFR Part 11 standard. Checksums are used to verify data is valid and hasn't been altered.
11.10 (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.	readable records / Data Access	Every test saved, as well as any data modification event, on the system results in the generation of a unique image (BMP) file of the result output. The BMP image contains the full data display, results/values, and the latest signature event. The image files are implemented to ensure easy inspection of data (without the need for the system or external software) in a manner that can't be readily modified. Data is also stored separately in the industry-standard flow cytometry standard (FCS 3.1) format. Within that FCS data file, a log of all signature events to the file is recorded, including tracking all changes to gate locations. The FCS data adds the ability to inspect data using any industry-standard FCS compliant software package. The FCS output can also be



Document	# MC2	SVS 006	
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Effective: 30JUL2021

Revision # 1.0

Page 2 of 6

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			displayed on the system to regenerate the
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11.10 (c)	Protection of records to enable their accurate and		Access to data files is restricted on the Moxi GO
	ready retrieval throughout the records retention		II system by unique user logins and associated
	period.		user privileges. Data integrity is ensured by the
			use of checksums. Once an authorized user has
			backed up data from the system, it is incumbent
			on the company to ensure proper storage and
			security measures for the external data backup.
11.10 (d)	Limiting system access to authorized individuals.		Once the "Secure Mode" (21 CFR Part 11) of the
		Access	system is enabled, all access to the system is
			strictly controlled by unique user ID and
			passwords. The system provides an "Idle
			Shutdown Timer" global setting that
			administrators can set to specify the automatic
			logout time (5, 15, 30, 60, or 120 minutes) for a
			user during a period of inactivity. This provides
			added protection to help ensure an unattended
			unit is properly secured.
11.10 (e)	Use of secure, computer-generated, time-stamped		The Moxi GO II firmware provides detailed audit
	audit trails to independently record the date and		trails. At the data/file level, all actions are
	time of operator entries and actions that create,		recorded with each file in the FCS file with the
	modify, or delete electronic records. Record		signature information as well as gate location
	changes shall not obscure previously recorded		information for gating changes. And, each
	information. Such audit trail documentation shall		action, is recorded with an image (BMP)
	be retained for a period at least as long as that		representation of the current data output
	required for the subject electronic records and		values, the action that was taken, and the
	shall be available for agency review and copying.		electronic signature of the user that performed
			the action. At a system level, notable events are
			logged in a system event log, including
			 Logins
			o Sign-in
			o Sign-out
			 Failed login event
			 User Administration
			o Add a user
			o Edit user (modify a
			user)
			 Password Change
			File checksum failure
			 USB connect events
			 Test/Data
			 Creation
			 Modification with
			Approval
			o Deletion
			System Power-on
			System Power-down.
			System event logs are provided as .csv files,
			accessible only by administrators, in the
			/User/admin folder (after connecting the
			system as a USB disk). Following copying of the
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Document # MG2.SYS.006	Effective: 30JUL2021

Revision # 1.0 Page 3 of 6

11.10 (f) Use of operational system checks to enforce permitted sequencing of steps and events, as appropriate. 11.10 (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. 11.10 (h) Use of device (e.g., terminal) checks to determine, as appropriate, the validity of the source of data input or operational instruction. 11.10 (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. 11.10 (j) The establishment of, and adherence to, written Electronic The system ersponsible for secure storage of the files responsible for secure responsible for secure storage of the files responsible for secure storage of the files permitted actions are tied to established roles, assigned to each user lio ender user lide of each user. Administrature action sare tied to established roles, assigned to each user lide of established to established roles, assigned to each user lide of established to established roles, assigned to each user lide of established to established roles, assigned to each user lide of established to established roles, assigned to each user lide of established to established to established roles, assigned to each user lide of established to established to established to established roles, assigned to each user lide of established to established to established to established roles, assigned to each user lide of established to established roles, assigned to each user lide of established to established roles, assigned to each user lide of established to established roles, assigned to each user lide of established to established roles, assigned to each user lide of established to established the approved actions are required to assign every user a role of estate of that user, thereby established to established	nique niq niq ne niq niq ne niq ne niq ne ne niq ne niq ne niq niq ne niq ne niq ne niq niq ne niq ne niq ni
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The system emphasizes that the ase of a	ser ID
policies that hold individuals accountable and signature and password entry constitutes a legal sig	
responsible for actions initiated under their validity of actions. More detailed written policies	_
electronic signatures, in order to deter record and education would be the responsibility of the second state of the second seco	
signature falsification.	
11.10 (k) Use of appropriate controls over systems Document With the v2.12 (21 CFR, Part 11) release,	ıstam
documentation including: Revision User Guides are revision controlled to ma	
(1) Adequate controls over the distribution Control firmware release. All changes to the guid	
of, access to, and use of documentation itemized/logged (audit trail) in a revision	are
for system operation and maintenance. tracking document. The process involves	
(2) Revision and change control procedures verifying all system changes with the	
to maintain an audit trail that documents development team and dual signature ap	rovai
time-sequenced development and of the changes.	
modification of systems documentation.	
11.30 Controls for open systems. N/A - The Moxi GO II is a closed system.	
11.50 Signature manifestations	
11.50(a) Signed electronic records shall contain information Signature For every signature event, the full name of	
associated with the signing that clearly indicates all components signer, date/time of signature, user role, a	
of the following: event type is recorded and logged.	nd
(1) The printed name of the signer;	nd
(2) The date and time when the signature	nd
was executed; and	nd



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Effective: 30JUL2021

Revision #1.0

Page 4 of 6

	(3) The meaning (such as review, approval, responsibility, or authorship) associated with the signature.		
	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).	tracking	Administrators can access and backup the full signature/event audit trail for the system. For signature actions associated with specific data files, a human-readable BMP is generated with the relevant data statistics and manifestation of the signature components.
	Signature/record linking		
11.70	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.	record links	Electronic signatures are included in checksum- protected FCS data as well as in the data images generated for every test/action, creating a permanent link between the records that can't be altered by ordinary means.
Subpart	Electronic Signatures		
С			
11.100	General requirements		
11.100 (a)	Each electronic signature shall be unique to one individual and shall not be reused by, or reassigned to, anyone else.	Signature uniqueness	The system ensures that all user ID's are unique so that the corresponding electronic signatures are also unique.
	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.	Verification	It is the customer's responsibility to ensure the identity of any individual that is assigned a user ID. The system limits the creation of users (and associated signatures) to Administrators so that a select group of trained individuals is responsible for generating users.
11.100 (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. (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. (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.	electronic signature as valid/binding	The system has language to indicate to the user that a user ID / password entry is tantamount to a legal signature. However, ultimately, it is the responsibility of the customer to provide the certification.
11.200	Electronic signature components and controls		
11.200 (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.	requirements	The Moxi GO II firmware uses two components for signatures: user ID and passwords. During a given session, the initial action (e.g. File Save) taken by a user, requires both components. Following that initial action, during an active
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Document # MG2.SYS.006	Effective:	30JUL2021
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Revision # 1.0 Page 5 of 6

	(i) When an individual executes a series of signings during a single, continuous period		session (no logout, no power-off, no sleep of the system), users are required to just enter
	of controlled system access, the first signing shall be executed using all		passwords for each action. The system does not allow any others, even Administrators, to sign
	electronic signature components;		on behalf of another user.
	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.		
	(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.		
	(2) Be used only by their genuine owners; and		
	(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.		
11.200 (b)	Electronic signatures based upon biometrics shall	Biometrics	N/A
	be designed to ensure that they cannot be used		
11 200	by anyone other than their genuine owners.		
11.300	Controls for identification codes/passwords	1	The section of section 10/2
11.300 (a)	Maintaining the uniqueness of each combined	_	The system enforces uniqueness of user ID's so
	identification code and password, such that no two individuals have the same combination of	uniqueness	that no two users have identical ones.
	identification code and password.		
11.300 (b)	Ensuring that identification code and password	Password aging	The Moxi GO II firmware implements a global
	issuances are periodically checked, recalled, or	0 0	setting ("Password Expiration") that allows the
	revised (e.g., to cover such events as password		Administrator user(s) to specify a password
	aging).		expiration period. Users are required to update
			passwords based on that setting.
11.300 (c)	Following loss management procedures to		The system provides the capability for
	electronically deauthorize lost, stolen, missing, or		administrator users to delete other users,
	otherwise potentially compromised tokens, cards,		change passwords, or change user roles.
	and other devices that bear or generate identification code or password information, and		
	to issue temporary or permanent replacements		
	using suitable, rigorous controls.		
11.300 (d)		Password/Login	The system specifically logs any failed login
	unauthorized use of passwords and/or		attempts in the system log.
	identification codes, and to detect and report in		
	an immediate and urgent manner any attempts at		
	their unauthorized use to the system		
11.300 (e)	Initial and periodic testing of devices, such as		N/A – The Moxi GO II does not use external
	tokens or cards, that bear or generate		tokens or cards. The system firmware, under
	identification code or password information to		administrator access, is used to generate and
	ensure that they function properly and have not		change passwords. Testing of that function is
	been altered in an unauthorized manner.		



Document	#	MG2.	SYS.	.006
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Page 6 of 6

	performed for each firmware release by Gemini Bio.

Document #	Revision #	Reason
MXG.SYS.006	001	Initial release