Response from XpressRules LLC, Fei Systems and Open Consent Group to ONC Request for Comments on TEFCA Draft 2 Date last revised: 17 June 2019 Page 1 of 10

XpressRules—FEi:

XpressRules LLC and FEi Systems, large scale health IT solution providers as well as experts in interoperability standards and Meaningful Consent, are pleased to submit their combined comments in response to Trusted Exchange Framework and Common Agreement (TEFCA) Draft 2.

Reference ¹	TEFCA2 Text	Comment
ExecSummary:4	ONC has focused	These goals are significantly important and great to see that ONC is focusing on these.
	on three high-level goals:	TEFCA has potential to take the nationwide connectivity and interoperability to the next
	 Provide a single "on-ramp" to 	level. However, there are significant challenges that need to be factored in, primarily in
	nationwide connectivity.	reference to differences in specialty health domains (e.g. BH and LTSS) as well as
	Enable Electronic Health	patient's ability to provide consent and preferences to control exchange of his/her EHI.
	Information to securely follow	
	the patient when and where it is	
	needed.	
	 Support nationwide scalability 	
Intro:6	ONC received more than 200	TEFCA DRAFT 1 indicated concerns about interoperability amongst and with specialty
	public comments from	domains such as BH and LTSS. However, those concerns are not mentioned or addressed
	stakeholders across the	in this DRAFT. Although DRAFT 1 had acknowledged concerns regarding interoperability
	industry, including individuals,	for LTSS, BH and other ambulatory services, it did not provide specific steps/guidance to
	health care systems, payers,	address that. Those were very legitimate concerns that are yet to be addressed to
	purchasers, care providers (e.g.,	achieve interoperability across all domains and care settings and can't be undermined.
	long-term and post-acute care,	
	behavioral health, community-	
	based and safety net providers,	
Intro:7	ONC has focused in on	Providing single "on-ramp" is one of the most important goal for TEFCA. It has been
	three high-level goals:	challenging for many organizations to decide which network to be connected to if there
	1) Provide a single "on-ramp"	are choices. Often there is no choice but to join only local network available and locked
	to nationwide connectivity:	into it. Even though TEFCA may not necessarily result in increasing network choices
		locally, it will make it easier to connect to specific HIN and implicitly be connected to
		nation-wide network of HINs. But this needs to factor in specialty domains such as BH
		and LTSS as mentioned earlier since those systems may not be using the same standards

¹ Section number (or section title), followed by a ":", followed by the page number in *Trusted Exchange Framework and Common Agreement (TEFCA)* Draft 2

Response from XpressRules LLC, Fei Systems and Open Consent Group to ONC Request for Comments on TEFCA Draft 2 Date last revised: 17 June 2019 Page 2 of 10

		as primary health. This can be possibly be alleviated by establishing HINs that focus on those specific domains and provide add-on capabilities to overcome those challenges. For example, BH domain specific HIN can have stronger consent-based capability to comply with 42 CFR Part II to make it easier for BH providers to join.
Intro:9	 Minimum Required Terms and Conditions (MRTCs) Additional Required Terms and Conditions (ARTCs): 	It is not very clear why ARTCs have to be separate from MRTCs. As per the description, ARTCs will be essential part of the T&C for QHIN to meet. If they are mandatory T&C for all QHINs to follow, then these might as well be included as part of MRTC to avoid unnecessary confusion.
Intro:10	Stakeholders have the option of fulfilling the responsibilities for and participating as a QHIN, a Participant, a Participant Member, or an Individual User, each of which is explained in more detail below.	It is certainly good intent to have any of these stakeholders to join as a QHIN, a Participant or a Participating Member. However, it may be impractical or may be potential conflicts for certain types of stakeholders to be designated as QHIN (e.g. Individuals, Federal Agencies or Health Plans). Although this would be governed by MRTC, there may be a need for certain qualifying criteria for a stakeholder to become QHIN.
Intro:12	RCE approves or rejects HIN's QHIN Application	ONC needs to make sure that RCE's decision for QHIN application is solely based on well- defined decision criteria and checklist. Therefore any potential conflict or bias do not come into picture in making such a decision.
Intro:14	• QHIN Message Delivery: (sometimes referred to as a "push").	"Push" notification generally should be based on subscription model based on patient provider attribution since QHIN should not deliver EHI to any QHINs or participants unless those receiving organizations have something to do with that patient. There is not much detail here regarding that.
Intro:14	Exchange Purposes	This term "Exchange Purposes" is better than "Permitted Purpose" used in DRAFT 1.
Intro:17	Meaningful Choice	We understand Patient-Centric "Meaningful Choice" as (1) the patient's own expression of privacy preferences as a policy for how her EHI is to be used (or not) and disclosed (or not) and (2) the enforcement of those immutable preferences in every disclosure of her EHI.
		Simply put, "Meaningful Choice" is enforcement of the patient's <i>intentions</i> and <i>expectations</i> , not just compliance with what the statutes allow or disallow.
Intro:17	Written Privacy Summary	We consider the ONC's 2018 Model Privacy Notice (MPN) as a basic requirements template for eliciting the patient's privacy options.
Intro:17	Participants and Participant Members are responsible for communicating this Meaningful Choice up to the	This calls forth "longitudinal consent": enforcement of the patient's Meaningful Choice in strict accordance with her immutable policy throughout the life cycle of her EHI.

Response from XpressRules LLC, Fei Systems and Open Consent Group to ONC Request for Comments on TEFCA Draft 2 Date last revised: 17 June 2019 Page 3 of 10

	QHIN who must then	
	communicate the choice to all	
	other QHINs. This choice must	
	be respected on a prospective	
	basis.	
Intro:19	Security Labeling	Traditional practice of Security Labeling is (1) static (relying solely on most recent VSAC versions) and (2) "bespoke" (pre-defined).
		Challenge is to reconcile forward-looking real-time transactions (and analytics, hopefully) with a static framework.
Intro:19	ONC is considering the inclusion	Our position is that these rules MUST be included in the TEFCA, or not all data will be
	of a new requirement regarding security labeling	able to be transferred, thus creating significant clinical risk and inaccurate patient records.
Intro:19	 Any EHI containing codes from one of the SAMHSA Consent2Share sensitivity value 	We maintain that VSAC-based labeling aloneeven if automated and rigorouscan only achieve <i>regulatory</i> compliance.
	sets for mental health, HIV, or	This legacy approach cannot support access control decisions that truly fulfill the
	substance use in Value Set	patient's expectation. This is because many "sensitivity clues" in the EHI reside (1) in
	Authority Center (VSAC) shall be electronically labeled;	unstructured notes and (2) among scattered terms in non-obvious relationships.
		Fulfilling the patient's expectation therefore clearly requires natural language processing (NLP) solutions. Development of (1) auto-detection of non-obvious sensitive data and (2) auto-marking of the EHI is currently underway at XpressRules, funded by a NIST cooperative agreement. Such auto-detection and auto-labeling are based on the patient's own identification of sensitive data, as required by 42 CFR Part 2.
Intro:19	a new requirement	We suggest these additional labeling requirements:
	regarding security labeling that	• While the VSAC is the governing sensitive data set, patients shall be able to add to, or
	states the	remove requirements from this data set for their personal data transference.
	following [5 bulleted labeling	 Patients shall be allowed to identify the external entities (caregivers, physicians,
	requirements]	payers, etc.) that are able to see their information.
		 This information must be included in the highest document or security level
Intro:19	Any EHI containing codes from	SAMHSA's valueset serves as master reference of some key sensitivity categories and
	one of the SAMHSA	related to concept codes from major terminologies including SNOMED-CT, LOINC,

Response from XpressRules LLC, Fei Systems and Open Consent Group to ONC Request for Comments on TEFCA Draft 2 Date last revised: 17 June 2019 Page 4 of 10

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	Consent2Share sensitivity value	RxNorm, ICD, CPT, etc. This is accessible to any organization that intends to use this
	sets for mental health, HIV, or	valueset. Learning from this approach, it will be great to have such a centralized place for
	substance use in Value Set	maintaining other value sets and other metadata needed under TEF. While HIN's,
	Authority Center (VSAC) shall be	QHIN's, and participants must abide by this sensitive data list, patients should be allowed
	electronically labeled;	to add to or remove from this list for their personal medical record
		transference/consent.
Intro:19	• At a minimum, such EHI shall	It is great to see specifics on DS4P IG that is aligned with the Interoperability Rule.
	be electronically labeled using	
	the confidentiality code set as	
	referenced in the HL7 Version 3	
	Implementation Guide: Data	
	Segmentation for Privacy (DS4P)	
TEF28	For example, for some health	It will be good to clearly state that consent is Part II-compliant when BH (or SA to be
	conditions such as human	more specific) providers are likely to be part of exchange network. At a minimum,
	immunodeficiency virus (HIV),	general designation should be made required to enable BH providers to participate in
	mental health, or genetic	exchange network. This is essential to address lack of BH participation in the current
	testing,	HIEs.
TEF:29	Principle 5 – Access: Ensure that	Same comment as DRAFT 1:
	Individuals and their authorized	This requirement is still not addressing the issue/challenges that patients face in the
	caregivers have easy	current environment since access to their information is segregated. Each provider
	access to their EHI.	and/or EHR system provides access to their own data via tethered PHR or provides a
		summary document to the patient. It is not easy for the patient to get all of the
		information harmonized/integrated for each access. TEF should address this by enabling
		the patient to access all data from single point (even though it may require broadcast
		query on network to dynamically collect that information and provide to the patient).
TEF:29	HINs should commit to following	Same comment from DRAFT 1:
	this principle and should provide	This text ("whenever possible") make it sound like providing a list of access/disclosures is
	such opportunities electronically	an optional activity. But for BH information exchange under 42 CFR Part II General
	whenever possible, particularly	Designation, this is <i>required</i> . Ideally this should be a standard requirement for <i>all</i>
	when an individual makes the	disclosures to ensure that patient has visibility to who is getting/accessing his/her data.
	request electronically	also sures to ensure that patient has visionity to who is getting/accessing his/her data.
MRTCs §4.1.2:46	"Fee Schedule. Within thirty (30)	Fees would generally depend on level of participation that may not be known early on.
11111 63 34.1.2.40	calendar days after signing the	Although this requirement does not explicitly ask for fixed fee, it may be good to indicate
	Common Agreement, each QHIN shall file with the RCE a	possibility of variable fee structure.
	schedule of Fees"	

Response from XpressRules LLC, Fei Systems and Open Consent Group to ONC Request for Comments on TEFCA Draft 2 Date last revised: 17 June 2019 Page 5 of 10

MRTCs	protection of	Title of the SP: "Protecting Controlled Unclassified Information (CUI) in non-Federal
§6.2.1(ii):50	CUI on at least an annual basis, .	Systems and Organizations," which includes applicable section: §3.1 "Access Control" (15
	comply with the security	subsections). As our implementation authority for access control we cite NIST SP 800-178
	requirements of the then most	re "Next Generation Access control (NGAC)"
	recently	
	published version of the NIST	
	Special Publication 800-171	
QTF:70	However, the QTF Draft 1	Although specific standards are mentioned in this QHIN Technical framework, it is still
	intentionally does not specify	relatively open-ended. If implementers choose whatever standard they prefer for
	standards QHINs must use	specific capability, it is likely to have a negative impact on the interoperability needed
	for these internal-QHIN	through TEF. For example, HIE participants will continue using IHE-based transactions
	implementation decisions.	with C-CDA documents for exchange, while EHRs participants on the same or other
		QHINs may prefer to use FHIR. Multiple methods of communication (RESTful API in FHIR
		vs. SOAP web services in IHE transactions) as well as multiple content IG (FHIR profile vs.
		CDA-based IG) will make interoperability a lot more challenging, especially when there is
		mapping involved between various content standards. While keeping it more flexible
		makes sense for initial buy-in, ONC must establish a roadmap to converge to the
		standards that provide best interoperability with lower costs and technical hurdles.
QTF:77	Table 5. Specified & Alternative	While IHE XUA focuses more on SAML-based authentication, more modern technologies
	Standards for User	rely on OAuth 2.0 and Open ID Connect (e.g. SMART-on-FHIR). So it is essential to specify
	Authentication	all applicable standards here as opposed to limiting to just XUA. Also there should be a
		roadmap to use one of those more prominently over time (say Open ID
		Connect/OAuth2).
QTF:83	• A QHIN MUST be capable of	This will likely be one of the most challenging problems to solve, not just within QHIN but
	accurately resolving requests to	across all QHINs. ONC must provide more specific guidance and a common solution/
	match patient demographic	algorithm for the patient identity and matching. Can ONC leverage the outcome from
	information with patient	the earlier challenge (https://www.hhs.gov/about/news/2017/11/08/hhs-names-
	identities under its domain	patient-matching-algorithm-challenge-winners.html)?
QTF:83	* ONC Request for Comment #7:	Set of minimum demographics information is certainly required. However, those data
	Should QHINs use a broader	elements may have some typos and errors. So a heuristic algorithm around those
	set of specified patient	characteristics will be needed (as opposed to literally matching those data elements).
	demographic elements to	
	resolve patient identity?	
QTF:83	* ONC Request for Comment #8:	Patient identity resolution model should rely on how QHINs are organized and
	should the QTF specify a	connected. In other words, it is better to have patient identity resolution be at the QHIN
	single standardized approach to	level and used in a federated model as opposed to a centralized model. However, the

Response from XpressRules LLC, Fei Systems and Open Consent Group to ONC Request for Comments on TEFCA Draft 2 Date last revised: 17 June 2019 Page 6 of 10

	Patient Identity Resolution	resolution should rely on a standardized set of data elements and an algorithm that may
	across QHINs?	be centrally made available for all QHINs to use.
QTF:83	"Individuals whose EHI is	Ability for individual to provide privacy preferences should be beyond just the opt-in and
	available through the QHIN	opt-out that HIPAA has adopted. That black-and-white approach does not provide
	Exchange Network can choose	flexibility to the individual/patient to be able control their information and share as
	to opt-out of further use and	needed. 42 CFR Part 2 is mentioned earlier in the rule. Even though not all aspects of the
	disclosure of their EHI through	42 CFR Part 2 is needed for all EHI, there are essential components of 42 CFR Part 2
	the network altogether by	consent that provide tremendous flexibility to individuals (e.g. ability to control sharing
	exercising Meaningful Choice."	to specific providers or specific sensitivity categories). While QHINs provide nationwide
		connectivity for better service, there must be a higher obligation to respect the patient's
		privacy. Therefore more fine-grained consent preferences should be made required as
		opposed to plain opt-in/opt-out model for any EHI.
QTF:84	"Standards to address privacy	IHE BPPC has been superseded by HL7 CDA Consent Directive IG and FHIR Consent
	preference include the IHE Basic	Resource Profile IG.
	Patient Privacy Consents (BPPC)	
	Profile,"	
QTF:85	* ONC Request for Comment	1. We strongly urge for the specification of such a function (for information exchange),
	#13: In addition to enabling	such "specification" to be in the form of a Guidance and or Implementation Guide.
	Meaningful Choice, the	2. We note that "consent" occurs 20 times in this document, invariably in the context of
	Common Agreement	statutory compliance. But maturing global standards and approaches now provide a
	requires QHINs to collect other	road map to <i>patient-centric</i> consent that is robust, auditable and enforceable. Under
	information about an	its NIST cooperative agreement XpressRules is engaged with London-based Open
	Individual's privacy preferences	Consent Group to apply consent by design and to implement standardized consent
	such as consent,	<i>receipts.</i> ² This addresses a current gap in the workflows for Code of Federal
	[1] Should the QTF specify a	Regulations (CFR) 42 part 2 and is relevant to the International Organization for
	function to	Standardization (ISO) and the General Data Protection Regulation (GDPR). We hope
	support the exchange of such	that this will encourage every player toward standards-based Meaningful Choice.
	information through the QHIN	
	Exchange Network?	
	[2] Which standards	
	and/or approaches should the	
	QTF specify for this function?	

² Kantara Initiative Consent Receipt Specification 1.1.0 (2/20/2018)

Response from XpressRules LLC, Fei Systems and Open Consent Group to ONC Request for Comments on TEFCA Draft 2 Date last revised: 17 June 2019 Page 7 of 10

XpressRules—Open Consent:

Combined XpressRules' and OpenConsent response to the ONC's request for comments to TEFCA2

ONC Request for Comment #13: In addition to enabling Meaningful Choice, the Common Agreement requires QHINs to collect other information about an Individual's privacy preferences such as **consent**, approval, or **other documentation when required by Applicable Law**. Should the QTF [QHIN Technical Framework] specify a function to support the exchange of such information through the QHIN Exchange Network? **Which standards and/or approaches should the QTF specify for this function** [bolding added]?

"Role and Relevance of (Consent) Receipts"

A substantial body of work over the last 7 plus years has focused on the role of receipts as a means of changing, for the better, the way people participate in the use of their subsequent personal information, and their contextual identification, characterization, and engagement. This work continues to progress in several standards organizations including: The Kantara Initiative, the W3C, OASIS COEL as well as by ISO. The Kantara Consent Receipt Standard has been adopted as a building block in building advanced privacy and security systems where the Meaningful Choice is made operational through legally established privacy rights and requirements. It is also in the process of being adopted as an appendix to ISO 29184 "Online privacy notices and consent". https://kantarainitiative.org/confluence/display/infosharing/Consent+Receipt+Specification

The use of a receipt addresses **all** of Principles for Trusted Exchange call out for "The Trusted Exchange Framework".

- **Principle 1 Standardization:** Adhere to industry and federally recognized standards, policies, best practices, and procedures.
- Principle 2 Transparency: Conduct all exchange and operations openly and transparently.
- **Principle 3 Cooperation and Non-Discrimination:** Collaborate with stakeholders across the continuum of care to exchange EHI, even when a stakeholder may be a business competitor.
- Principle 4 Privacy, Security, and Patient Safety: Exchange EHI securely and in a manner that promotes patient safety, ensures data integrity, and adheres to privacy policies.
- Principle 5 Access: Ensure that individuals and their authorized caregivers have seamless access to their EHI.
- **Principle 6 Population Level Data:** Exchange multiple records for a cohort of individuals at one time in accordance with applicable law to enable identification and trending of data to lower the cost of care and improve the health of the population.

Response from XpressRules LLC, Fei Systems and Open Consent Group to ONC Request for Comments on TEFCA Draft 2 Date last revised: 17 June 2019 Page 8 of 10

XpressRules and OpenConsent have outlined and drafted notice receipts that cover each of these categories. And while a receipt for (explicit) consent has many benefits so do receipts for other purposes. Importantly receipts provide not only transparency but also a means of engagement, in a balanced way, with individuals so that they can exercise their rights under a given jurisdiction, purpose and justification.

The use of receipts sets the stage for advanced security and privacy solutions. It combines transparency and user control with the operational goals of integrity, confidentiality and availability and does so in a way that can be common across QHINs, Participants and Participant Members and again very importantly for and from the perspective of individuals and they hold the receipt documenting actions, agreements and interactions greatly advancing the needed trust in the TEFCA Draft 2.

The use of receipts can greatly advance and address:

- Meaningful Choice and Written Privacy Summary
- Breach Notification Requirements
- Minimum Security Requirements
- Security Labeling

And the receipt is designed and being leveraged by many of the groups mentioned in the Alternative / Emerging Standards /Profile in particular HL7 FHIR RESTful API.

A critical component of the existing receipt is the ability to incorporate purpose. In this case we have (as an example) adopted the updated purpose categories in Draft 2.

- Treatment
- Quality Assessment and Improvement
- Business Planning and Development
- Utilization Review
- Public Health
- Benefits Determination
- Individual Access Services

And in the same way the ONC Model Privacy Notice can be adopted and incorporated as a profile/extension of the evolving standard.

Response from XpressRules LLC, Fei Systems and Open Consent Group to ONC Request for Comments on TEFCA Draft 2 Date last revised: 17 June 2019 Page 9 of 10

In doing so we would show how it improves the Message Delivery Functions in the QHIN Exchange Network. In particular a receipt can play a key role in:

- Authorization and Exchange Purpose
- Message Delivery
- Auditing

Completion of XpressRules' NIST Cooperative Agreement, which includes OpenConsent as sub-contractor, will demonstrate how the Consent Receipts capability is being accomplished and can be further extended in concert with Draft2.

"OPN Network and Consent by Design"

While consent is not always a requirement under HIPAA, e.g

The HIPAA Privacy Rule generally does not require covered entities to get an individual's consent or authorization before using or disclosing ePHI for treatment, payment, and health care operations purposes. While the Privacy Rule generally permits covered health care providers to give individuals the choice as to whether their health information may be disclosed to other covered entities or that covered entity's business associate for those purposes, some federal and state laws require health care providers to obtain an individual's written consent before they disclose or exchange an individual's EHI to other people and organizations, even for treatment and payment purposes. For example, for some health conditions such as human immunodeficiency virus (HIV), mental health, or genetic testing, state laws generally impose a more stringent standard (e.g., requiring consent from the individual) than HIPAA. Additionally, under 42 CFR Part 2, subject to certain exceptions, federally assisted "Part 2 programs" (certain substance use disorder treatment programs) are required to obtain an individual's consent to disclose or re-disclose health information related to substance use disorder information, such as treatment for addiction.

Page 28TEFCA Draft 2

it is still the fact that notice and transparency need to be built into the operational principles regardless of purpose and justification. In addition to the use of receipts OpenConsent has also created a data controller registry that can be used to enroll and maintain a scalable, user-friendly and dynamic signal of the legal business entity and its privacy (and security) state. This complements some of the security features envisioned in Draft 2 around public key infrastructure with a like ability to monitor and broadcast the privacy equivalent of certificate status, certificate policy and associated object identifiers. We do this by focusing on privacy policy (company and service), privacy point of contact, identification of high risk, and state of business ownership as part of the controller registration. We refer to the registry as the OPN Network (as in Open Network) and create an icon that represents privacy and legal entity state (it could include TEF adherence), which when "clicked" provides multiple operational privacy features including the use of receipts

Response from XpressRules LLC, Fei Systems and Open Consent Group to ONC Request for Comments on TEFCA Draft 2 Date last revised: 17 June 2019 Page 10 of 10

mentioned above. "Consent by Design" is our reference to the design and operation system protocol we use when building advanced privacy and security system such as that being constructed and envisioned for use in accordance with Draft 2.