	Disclosure Levels	Abbreviation	Information Disclosure	On/Offline	Revoke	Mode of Information Presentation
	Private Venue	PV	Minimal	fully offline	only at DSC level	Conclusion only (yes/no)
	Border Control	BC	Medium	offline	online at certificate level	Conclusion only (yes/no for vaccine approved in country of arrival - "allow list" of vaccines in MS)
	Medical	MD	Full (Medical Info)	online	always possible	Original Data, may be subject to online authentication and/or auditing.

https://www.hl7.org/fhir/immunization-definitions.html

		PV	BC	MD	HL7 / FHIR 4.1 path (root: Immunization)	Short Name	Short Name Mnemonic	NOTES
General	Legal name	☑	☑	☑	ref: patient	nam		PV = Initials (as one string); BC,MD = Full Name (one string)
	Person ID	☐	☐	☑	ref: patient	pid		
	Administrative Gender [1]	☐	☐	☑	ref: patient	sex		
	Date of Birth	☐	☐	☑	ref: patient	dob		Mandatory if no PersonID
Vaccination specific	Disease or Agent Targeted	☑	☑	☑	protocolApplied.targetDisease	v:tg	Target	
	Vaccine / Prophylaxis	☐	☐	☑	vaccineCode	v:cd	Code	e.g. https://www.hl7.org/fhir/valueset-vaccine-code.html
	Vaccine Medicinal Product	☐	☐	☑	(unclear: vaccineCode in FHIR 4.1 seems closest)	v:mp	Medical Product	
	Marketing Authorization Holder	☐	☐	☑	ref:manufacturer	v:ah		Unclear if MAH == Manufacturer, I will assume yes
	Number in series of Dose	☐	☐	☑	protocolApplied.doseNumber / protocolApplied.seriesDoses	v:sq	Sequence	
	Batch/Lot Number	☐	☐	☑	lotNumber	v:lt	Lot	
	Date Of Vaccination	☐	☐	☑	occurence	v:oc	Occurance	
	Start Date of Validity	☑	☑	☐	(date of administering vaccine?)	v:fr	Valid from	
	Administering Centre	☐	☐	☑	ref: performer.actor where (performer.function == AP)	v:ap	Actor AP	
	Health Professional ID	☐	☐	☑	ref: performer.actor->practitioner.identifier	v:pi	Actor Practitioner	BIG registration in NL
	Country of Vaccination	☐	☐	☑	ref: location->position (long, lat, alt -> WGS84) OR ref:location->address	v:lo	Location	
	Next vaccination date		☐	☑	not availaible directly: there is expirationDate of current vaccine	v:nx	Date Next	

Start: Not part of FHIR Immunization resource / Vaccination Only - is Test / Recovery specific - (Green Pass)

		PV	BC	MD	HL7 / FHIR 4.1 path (root: Immunization)	Short Name	Short Name Mnemonic	NOTES
Test Specific	Disease or Agent tested	☑	☑	☑	todo: coded value	t:tg	Target	<< NOTYET
	Date of Test	☑	☑	☑	todo: occurence	t:ip	Infectious Period	<< NOTYET
	Status	☑	☑	☑	todo: enumeration - positive / negative / other ?	t:st	Status	<< NOTYET
	Test Medicinal Product	☐	☐	☑	todo: coded value or text?	t:mp	Medical Product	<< NOTYET
	Marketing Authorization Holder	☐	☐	☑	ref:manufacturer	t:ah		<< NOTYET
	Administering Centre	☐	☐	☑	ref: performer.actor where (performer.function == AP)	t:ap		<< NOTYET
	Health Professional ID	☐	☐	☑	ref: performer.actor->practitioner.identifier	t:pi		<< NOTYET
Recovery Specific	Disease recovered from	☑	☑	☑	todo: coded value -> agent recovered from? "adverse reaction" belongs somewhere else, not here	r:tg	Target	<< NOTYET
	Start Date of Recovery	☑	☑	☑	todo: occurence	r:fr	Valid from	<< NOTYET
	Test Medicinal Product (if any)	☐	☐	☑	todo: needed?	r:mp	Medical Product	<< NOTYET
	Marketing Authorization Holder	☐	☐	☑	ref:manufacturer	r:ah		<< NOTYET
	Administering Centre	☐	☐	☑	ref: performer.actor where (performer.function == AP)	r:ap		<< NOTYET
	Health Professional ID	☐	☐	☑	ref: performer.actor->practitioner.identifier	r:pi		<< NOTYET

End: Not part of FHIR Immunization Immunization resource / Vaccination Only - is Test / Recovery specific

		PV	BC	MD	HL7 / FHIR 4.1 path (root: Immunization)	Short Name	Short Name Mnemonic	NOTES
Document Specific	Certificate Issuer	☑	☑	☑	could be dropped in lieu of DSC signing key (in combination with master list)	c:is	Issuer	
	Certificate Identifier	☐	☑	☑		c:id	Certificate identifer	UVCI
	Certificate Valid From	☑	☑	☑		c:st	Start	
	Certificate Valid Until	☑	☑	☑		c:en	End	
	Certificate Schema Version	☑	☑	☑	could be replaced by a 2-4 byte Qr header having same (but not signed!)	c:vr	schema Version	https://semvers.org is used.
	Issuing Authority Country	☑	☑	☑	could be dropped in lieu of DSC signing key (in combination with master list)	c:ia	issuing Authority	PV =-only 2 digit country code from UVCI; BC, MD - Full UVCI
Document Specific	DSC signing key	☑	☑	☑	8 bytes of SHA256 of DSC certificate, reveals issuing entity (and country)	dsc		part of the COSE signature

c, t, v and r are sub-sections

c: once-only

t, v and r: repeating groups

Separate FHIR resource for vaccination certificate? Or do we get these parameters from e.g. the IIS some other way?

This appears to differ on a natonal basis e.g. Annex. National IIS... (p. 69) in https://www.ecdc.europa.eu/sites/default/files/documents/designing-implementing-immunisation-information-system_0.pdf

IIS HL7 https://www.cdc.gov/vaccines/programs/iis/technical-guidance/hl7.html

[1] I can see a medical reason for including biological gender (sex), no real reason for Admin Gender -> shouldn't be needed for ID purposes anyway - Member State decision?

[2] I think we need this at PV (level 0 too - even if in abbreviated form?)