



STChealth, LLC

Immslink Flat File Specification

Enabling Immunization Information System Data Submissions and Queries



ImmsLink Flat File Specification

Revision History:

2021.03.24	Updates for Covid specific fields.
2021.04.08	Updates for file naming convention, date formats, field requirements (string lengths), location ID requiring organizational NPI.
2021.10.08	Cvrs Required Fields Added
2022.02.04	cvrsAdminType and ndc added for CVRS Creation



ImmsLink Flat File Specification

STC supports flat file submission for reporting compliance for clients that do not currently have the technical capability to call the ImmsLink Web Service (API) through either a direct integration or an integration with an existing partner/vendor. Files must be sent either with headers to ensure accurate field mapping.

The following formats are accepted:

- CSV (RFC 4180 Standard): Note – this is a CSV file as generated by Excel, i.e., fields are delimited by commas, fields containing commas are enclosed in quotes, etc.
- Delimited file using pipe (|) as the field separator.

File name must be formatted in the following manner – CustomerNameyyyyMMDDhhmmss.txt or .csv (e.g., STChealth20210331174623.txt or STChealth20210331174623.csv)

All date and datetime fields use ISO 8601 format (e.g., 1980-01-01T00:00:00 or 1980-01-01). If provided datetime value is equal to 0001-01-01 value, it is an invalid date. Any string field without a specified length is passed to and returned from the registry as-is and unmapped, so its maximum length will vary.

Flat file imports support a subset of the fields available via Web Service. The table below lists the supported fields. Any field that is in the table below and available in the sending system should be sent. Fields marked by an asterisk (*) may not be available in systems that do not have extended immunization functionality; lack of one or more of these fields may be problematic in some jurisdictions; contact immslinksupport@stchome.com with a list of unavailable fields for jurisdiction-specific guidance.

If a field is unavailable in the sending system, it can be omitted from the file. Additionally, the following table lists the preferred field order, but a custom field order will be accepted. For fields with a Y in the mapping field, if the list of values used differs from the value set identified as natively supported, please send the code list that will be used to immslinksupport@stchome.com.

Property	Type (len)	Required?	Mapped?	Description
Medical Record Number	string (15)	Y		Patient's identifier within the sending system. Must be unique and consistent (specifically: unique across all records for the sending entity, including for separate locations; consistent such that if a patient receives two vaccinations on different days, the second vaccination will be sent with the same



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Property	Type (len)	Required?	Mapped?	Description
				medicalRecordNumber). CVRS = recip_id
Patient First Name	string (30)	Y		Individual's first name. CVRS = recip_first_name
Patient Middle Name	string (30)			Individual's middle name. Registries use this field for matching patient names so this field should be included when available. CVRS = recip_middle_name
Patient Last Name	string (50)	Y		Individual's last name. CVRS = recip_last_name
Date of Birth	datetime	Y		Patient's birthdate. Must adhere to ISO 8601 format (e.g., 1980-01-01T00:00:00 or 1980-01-01). CVRS = recip_dob
Sex	string (1)	Y		Patient's sex. Allowed values are (Formatted in upper case): M – male F – female U – unknown CVRS = recip_sex
Street Address 1	string (120)	Y		Street address component of the address. CVRS = recip_address_street
Street Address 2	string (120)	Y		Second line of the street address component of the address. CVRS = recip_address_street2
City	string (50)	Y		City component of the address. CVRS = recip_address_city
County	string (50)			County of Patient CVRS = recip_address_county
State	string (50)	Y		State component of the address. Use USPS two-character codes for USA addresses (code list). CVRS = recip_address_state
Zip Code	string (12)	Y		Zip code component of the address. CVRS = recip_address_zip
Phone Number	string (10)			10-digit phone number.



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Property	Type (len)	Required?	Mapped?	Description
Email Address	string (199)			Patient's email address.
Patient Race	string (250)	*	Y	Patient's self-reported race. This is required for UpdateHistory in some jurisdictions. ImmsLink natively supports registry-recognized values (code list). CVRS = recip_race_1
Patient Ethnicity	string (250)	*	Y	Patient's self-reported ethnicity. This is required for UpdateHistory in some jurisdictions. ImmsLink natively supports registry-recognized values: <ul style="list-style-type: none"> • 2135-2 (Hispanic or Latino) • 2186-5 (Not Hispanic or Latino). • U if Unknown CVRS = recip_ethnicity
Mother Maiden Name	string (50)	*		Patient's mother's maiden name. This field is required in some jurisdictions and is used in many jurisdictions to match patients. It is highly recommended to include it when available.
Guardian First Name	string (30)	*		Guardian's first name.
Guardian Last Name	string (50)	*		Guardian's last name.
Guardian Relationship	string (250)	*	Y	Guardian's relationship to patient. ImmsLink will translate any code set to registry-recognized values. ImmsLink natively supports FTH, MTH, GRD and SLF as a subset of relationship type (code list).
Protection Indicator	boolean			Indicator of whether patient wishes to protect (not share) immunization data (true = protect, do not share). Jurisdictions have varying laws respecting this indicator.



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Property	Type (len)	Required?	Mapped?	Description
				Required in some states; see the ImmsLink Implementation Guide Consent Supplement for further information on which states require this field.
Protection Indicator Date	datetime			Effective date of patient's protection indicator. If protection indicator is sent, this field should be sent (can be date of immunization). Must adhere to ISO 8601 format (e.g., 1980-01-01T00:00:00 or 1980-01-01).
Insurance Company Id	string (250)		Y	Identifier of the insurance company. ImmsLink will translate any code set to registry-recognized values. ImmsLink native supports NAIC values recognized by the states that utilize insurance. Unsupported values are defaulted to unknown. Required in Idaho, Massachusetts, New Hampshire, New Mexico.
Insurance Policy Number	string (15)			Insurance policy number for insured and Medicaid/Medicare patients.
Vaccine Code	string (250)	Y	Y	Identifies the vaccine given. Supports CVX codes defined by the CDC (code list). CVRS = cvx
NDC	string (250)			CVRS = ndc
Immunization Date	datetime	Y		Date the vaccination was given. Must adhere to ISO 8601 format (e.g., 1980-01-01T00:00:00 or 1980-01-01). CVRS = admin_date
Location Id	string (20)	Y	Y	Id of the location where the vaccination was given. Send the Organization National Provider Identifier (NPI). Must be unique across all locations.



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Property	Type (len)	Required?	Mapped?	Description
				Immslink will translate this local identifier for the location to registry-recognized values.
Lot Number	string	*		Vaccine's lot number. CVRS = lot_number
Manufacturer Code	string (250)	Y	Y	Vaccine's manufacturer. MVX codes defined by the CDC (code list). CVRS = mvx
Expiration Date	datetime	*		Vaccine's expiration date. Must adhere to ISO 8601 format (e.g., 1980-01-01T00:00:00 or 1980-01-01). CVRS = vax_expiration
Historical	boolean	Y		Identifies whether or not a vaccination is historical (i.e., recorded from the patient's documented history). Historical Yes(Y) or No (N)
Dose Amount	string (20)	*		Vaccine's dose amount, e.g., 0.5. This field is the volume (not the unit of sale).
Dose Unit of Measure	string (50)	*		Unit of measure for the vaccine dose amount, e.g., mL.
Administered By Id	string (15)	*		Id for the individual administering vaccination.
Administered By First Name	string (30)	*		First name of the individual administering vaccination.
Administered By Last Name	string (50)	*		Last name of the individual administering vaccination.
Administration Site	string (250)	*	Y	Identifies the site (e.g., left arm) where the vaccination was administered. ImmsLink natively supports registry-recognized values (code list). CVRS = vax_admin_site
Administration Route	string (250)	*	Y	Identifies the route (e.g., intramuscular) through which the vaccination was administered. ImmsLink natively supports registry-



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Property	Type (len)	Required?	Mapped?	Description
				recognized values (ID, IM, IV, PO, SC, TD) from the administration route code list . CVRS = vax_route
VIS Date Given	datetime	Y		Date the patient was given the VIS statement. Must adhere to ISO 8601 format (e.g., 1980-01-01T00:00:00 or 1980-01-01).
VIS Statement Date	datetime	*		VIS statement's edition date. Must adhere to ISO 8601 format (e.g., 1980-01-01T00:00:00 or 1980-01-01).
Order Number	string (199)	Y		Order number for provider's orders for this immunization. This number will provide a reference number to uniquely identify the vaccination for any support questions. CVRS = vax_event_id
Prescribed By Id	string (15)	Y		Id for individual who signed the orders for this patient.
Prescribed By First Name	string (30)	Y		First name of individual who signed the orders for this patient.
Prescribed By Last Name	string (50)	Y		Last name of individual who signed the orders for this patient.
Dose Indicator	string (1)	Y		Required for Covid doses if known CVRS = dose_num
Funding Source	String(50)	Y		Required for Covid – Funding Code for Covid Vaccine
VFC Status	String(250)	Y		Required for Covid – Vaccine Status Code for Covid.
Target Population Occupation	string(250)	Y		Required For IL/OH Only
Priority Group	string(250)	Y		Required for NY State Only
Vtrcks Pin	String(30)			Unique pin number provided when ordering doses from CDC. CVRS = vtrcks_prov_pin
Vaccination Series Complete	String(30)			Is the vaccination series complete:



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Property	Type (len)	Required?	Mapped?	Description
				YES (Yes) NO (No) UNK (Unknown) CVRS = vax_series_complete
Responsible Org Name	string(250)			Name of the parent organization or health system that administered the immunization CVRS = responsible_org
Administered at location	string(250)			Name of clinic or facility that administered the immunization CVRS=admin_name
Administered at location Type	string(10)			Type Code for the type of location that administered the immunization Locally Defined Value Set: 1 (Commercial vaccination service provider) 2 (Corrections/detention health services) 3 (Health center – community) 4 (Health center – migrant or refugee) 5 (Health center – occupational) 6 (Health center – STD/HIV clinic) 7 (Health center – student) 8 (Home health care provider) 9 (Hospital) 10 (Indian Health Service) 11 (Tribal health) 12 (Medical practice – family medicine) 13 (Medical practice – pediatrics) 14 (Medical practice – internal medicine) 15 (Medical practice – OB/GYN) 16 (Medical practice – other specialty) 17 (Pharmacy – chain) 18 (Pharmacy – independent)



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Property	Type (len)	Required?	Mapped?	Description
				19 (Public health provider – public health clinic) 20 (Public health provider – Federally Qualified Health Center) 21 (Public health provider – Rural Health Clinic) 22 (Long-term care – nursing home, skilled nursing facility, federally certified) 23 (Long-term care – nursing home, skilled nursing facility, non-federally certified) 24 (Long-term care – assisted living) 25 (Long-term care – intellectual or developmental disability) 26 (Long-term care – combination) 27 (Urgent care) 28 (Other) UNK (Unknown) CVRS = admin_type
Administered at location address	string(250)			Used when immunization was administered at a long term care facility or offsite clinic. CVRS = admin_address_street
Administered at location address2	string(250)			Used when immunization was administered at a long term care facility or offsite clinic. CVRS = admin_address_street2
Administered at location city	string(250)			Used when immunization was administered at a long term care facility or offsite clinic. CVRS = admin_address_street2
Administered at location county	string(250)			Used when immunization was administered at a long term care facility or offsite clinic. CVRS = admin_address_county
Administered at location state	string(250)			Used when immunization was administered at a long term care facility or offsite clinic.



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Property	Type (len)	Required?	Mapped?	Description
				CVRS = admin_address_state
Administered at location zip code	string(250)			Used when immunization was administered at a long term care facility or offsite clinic. CVRS = admin_address_zip
Vaccination refusal	string(250)			Was the vaccination refused Locally Defined Value Set: YES (Yes) NO (No) CVRS = vax_refusal
Comorbidity status	string(250)			If patient has a comorbidity or is part of a risk group Locally Defined Value Set: YES (Yes) NO (No) UNK (Unknown) CVRS=cmorbid_status
Serology results	string(250)			Report if there was a positive Serology (Antibody test) result. If the provider knows of any positive serology results, they should report it regardless of if they conducted the test. Locally Defined Value Set: YES (Yes) NO (No) UNK (Unknown) If you do not collect, please populate with UNK CVRS=serology