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SMaRT AFIX

API Documentation

March 2018



Support Services

For general support on this product, contact your system administrator. For up-to-date documentation, visit the STC Documentation Portal at <https://documentation.stchome.com/>.

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What's New in this Version?

The following changes have been made for the March 2018 version of this documentation (which corresponds with SMaRT AFIX (v. March 2018)):

General Area	Description of What's New	Link to Page in Documentation
Provider API	Updated the data type of SRC_FAC_ID from Integer to String in this documentation.	<ul style="list-style-type: none">• Provider API
Vaccination API	Updated the data type of CVX_Code from Integer to String in this documentation.	<ul style="list-style-type: none">• Vaccination API
User Data API	Added two new attributes to the table: INACTIVE_STATUS and MULTI_PROVIDER.	<ul style="list-style-type: none">• User Data API
Patient Provider Mapping API	Updated the data type of two attributes, OWNER_FAC and IS_PRIMARY, from Nullable to Not null.	<ul style="list-style-type: none">• Patient Provider Mapping API

Introduction

For some SMaRT AFIX users, the application does not have direct access to the source IIS. As such, you will need to allocate the necessary data from your source system and provide it to AFIX in a flat file format. This document defines the APIs for each of the six required files that need to be provided for AFIX function.

Each API defines a list of fields required for AFIX and a description of what data the field represents. There is also a Data Validation Table for each API that defines the permitted data type, length and format, where applicable, of each field.

The data for each API should be included in its own unique .txt file. The fields are to be delimited by a pipe character ("|"). Fields should be in the same order as defined in the API, and the first row of each API file should be a header row.

Example:

```

1 PATIENT_ID|FIRST_NAME|LAST_NAME|DATE_OF_BIRTH|PHONE_NUMBER|CELL_NUMBER|GENDER|RACE|ETHNICITY|VFC_ELIGIBLE|CREATED_TS
2 156934|MAXWELL|WONG|1998-01-13 00:00:00||M|||2004-02-05 11:24:38|2004-02-13 23:03:36
3 156967|BROOKE|HODGE|1998-01-13 00:00:00||F|White|Not Hispanic or Latino|Private Insurance|2004-02-05 11:24:41|2014-
4 156969|ASHWATH|BOYD|1998-01-13 00:00:00|2063027364|M|||2004-02-05 11:24:41|2014-01-21 20:04:01
5 156911|ALEXANDER|HAYDEN|1998-01-13 00:00:00|3606089441|M|||2004-02-05 11:24:37|2014-12-03 15:05:58
6 156912|ANDI|DAO|1998-01-13 00:00:00||F|||2004-02-05 11:24:37|2013-02-07 10:13:44
7 180287|JACOB|REYNOLDS|1998-01-13 00:00:00|2069575989|M||Private Insurance|2004-02-05 11:51:12|2010-03-01 09:58:18
8 191874|VANESSA|VILLEGAS|1998-01-13 00:00:00|4256441788|F|||2004-02-05 12:06:38|2014-03-26 01:27:26
9 196854|JAMAICA|WALDEN|1998-01-13 00:00:00|2067407826|F|||2004-02-05 12:37:15|2003-01-21 14:00:53
0 1079211|KOLTON|FRANKLIN|1998-01-13 00:00:00||M|||2004-02-06 21:12:47|1998-03-03 08:44:10
1 983600|MALAEIMI|GUE|1998-01-13 00:00:00|2066936638||F||Medicaid|2004-02-06 19:39:05|2014-11-17 11:23:33

```

Patient API

File Name: PatientData.txt

The Patient set should be limited to active patients up to the age of 19 years. The active status is determined by the Patient Active/Inactive Status (PAIS) indicator. Patients should be excluded if they have turned 19 as of the current date.

The Patient API includes the following fields:

PATIENT_ID: This attribute represents the unique patient identifier.

FIRST_NAME: This field represents the first name of a specific patient.

LAST_NAME: This field represents the last name of a specific patient.

DATE_OF_BIRTH: This field represents the date of birth of a specific patient.

PHONE_NUMBER: This field represents the phone number of a specific patient.

CELL_NUMBER: This field represents the cell phone number of a specific patient.

GENDER: This field represents the gender of a specific patient corresponding to a specific patient ID.

RACE: This field represents the race of a specific patient corresponding to that particular patient ID.

ETHNICITY: This field represents the ethnicity of a specific patient corresponding to that particular patient ID.

VFC_ELIGIBLE: This field represents the VFC eligibility status of a specific patient corresponding to that particular patient ID.

CREATED_TS: This field represents the date and timestamp when the record was created.

MODIFIED_TS: This field represents the date and timestamp when the record was modified.

Data Validation for Patient API :

Attribute	Null Check	Data Type	Length	Format
PATIENT_ID	Not null	Integer	10	Must be a whole number value less than 2,147,483,647.
FIRST_NAME	Nullable	String	48	
LAST_NAME	Nullable	String	48	
DATE_OF_BIRTH	Not null	Date	19	(yyyy-MM-dd HH:mm:ss)
PHONE_NUMBER	Nullable	String	10	10 unbroken digits only (#####). Patient records will be rejected due to incorrect formatting.
CELL_NUMBER	Nullable	String	10	10 unbroken digits only (#####). Patient records will be rejected due to incorrect formatting.
GENDER	Nullable	String	10	
RACE	Nullable	String	100	
ETHNICITY	Nullable	String	100	
VFC_ELIGIBLE	Nullable	String	200	
CREATED_TS	Not null	Date	19	(yyyy-MM-dd HH:mm:ss)
MODIFIED_TS	Not null	Date	19	(yyyy-MM-dd HH:mm:ss)

In case of null values in the attributes GENDER, RACE, ETHNICITY, and VFC_ELIGIBLE, the null values are set to 'Unknown'.

Data Integrity:

Data integrity for the Patient API is validated for the following fields (in line with CDC provided codes listed in CDC_Codes.xlsx):

- Gender: The data integrity is validated against the values "Female", "Male" and "Undifferentiated". Patients with a value of "Unknown" have been accepted.
- Ethnicity: The data integrity is validated against the values "Hispanic or Latino" and "Not Hispanic or Latino"
- Race: The data integrity is validated against the values "American Indian or Alaska Native", "Asian", "Black or African American", "Native Hawaiian or Other Pacific Islander", "White" and "Other Race"
- VFC_ELIGIBLE: The data integrity is validated against the values "Not VFC Eligible-Underinsured", "VFC Eligible - State Specific Eligibility", "Local-Specific Eligibility", "Not VFC Eligible", "American Indian/Alaska Native", "Uninsured", "Federally Qualified Health Center Patient", and "Medicaid"

Provider API

File Name: ProviderData.txt

In SMaRT AFIX, a provider is represented in a two-tier hierarchy, with a combination of two unique IDs. One is for the Organization the provider belongs to and the other is for the Facility representing where the provider is located. An organization can have multiple Facilities underneath it; however, a Facility can only belong to one Organization. An Organization can also exist as an independent provider with no Facility; in this case the Facility ID is represented as 0.

The Provider API includes the following fields:

SRC_ORG_ID: This field represents the unique identifier for a specific Organization.

SRC_FAC_ID: This field represents the unique identifier for a specific Facility that falls under the Organization identified in SRC_ORG_ID. In the event the provider exists as only an Organization, the SRC_FAC_ID should be set to 0.

VFC_PIN: This field is assigned for each VFC provider. VFC PINs are used for vaccine ordering and accountability for all vaccines issued and administered as part of the VFC program. Note: AFIX will accept providers that do not have an assigned VFC PIN.

ORG_NAME: This field represents the name of an Organization corresponding to the specific SRC_ORG_ID.

FAC_NAME: This field represents the name of a Facility corresponding to the specific SRC_FAC_ID.

ADDRESS_1: This represents the first line address of the Facility corresponding to SRC_FAC_ID. If the SRC_FAC_ID is null, this field represents the address of the Organization corresponding to the SRC_ORG_ID.

ADDRESS_2: This represents the first line address of the Facility corresponding to SRC_FAC_ID. If the SRC_FAC_ID is null, this field represents the address of the Organization corresponding to the SRC_ORG_ID.

CITY_NAME: This represents the city name of the corresponding Facility. If the SRC_FAC_ID is null, this field is referred to the SRC_ORG_ID.

COUNTY_NAME: This represents the county name of the corresponding Facility. If the SRC_FAC_ID is null, this field is referred to the SRC_ORG_ID.

ZIP_CODE: This represents the zip code of the corresponding Facility. If the SRC_FAC_ID is null, this field is referred to the SRC_ORG_ID.

STATE: This represents the state of the corresponding Facility. If the SRC_FAC_ID is null, this field is referred to the SRC_ORG_ID.

CREATED_TS: This field represents the date and timestamp when the record was created.

MODIFIED_TS: This field represents the date and timestamp when the record was modified.

Data Validation for Provider API :

Attribute	Null Check	Data Type	Length	Format
SRC_ORG_ID	Not null	Integer	10	
SRC_FAC_ID	Not null	String	10	
VFC_PIN	Nullable	String	20	
ORG_NAME	Nullable	String	500	
FAC_NAME	Nullable	String	500	
ADDRESS_1	Not null	String	100	
ADDRESS_2	Nullable	String	100	
CITY_NAME	Not null	String	30	
COUNTY_NAME	Not null	String	30	
ZIP_CODE	Not null	String	10	12345-9999
STATE	Not null	String	2	"AZ"
CREATED_TS	Not null	Date	19	(yyyy-MM-dd HH:mm:ss)
MODIFIED_TS	Not null	Date	19	(yyyy-MM-dd HH:mm:ss)

Vaccination API

File Name: VaccinationData.txt

The Vaccination set should be limited to only those vaccines given to patients within the Patient set.

The Vaccination API includes the following fields:

PATIENT_ID: This attribute represents a unique patient identifier.

VACC_DATE: This field represents the date the patient received the vaccination.

CVX_CODE: This field represents the standardized code used to indicate the vaccination that was administered.

CREATED_TS: This field represents the date and timestamp when the record was created.

MODIFIED_TS: This field represents the date and timestamp when the record was last modified.

Data Validation for Vaccination API:

Attribute	Null Check	Data Type	Length	Format
PATIENT_ID	Not null	Integer	10	Must be a whole number value less than 2,147,483,647.
VACC_DATE	Not null	Date	19	(yyyy-MM-dd HH:mm:ss)
CVX_CODE	Not null	String	25	
CREATED_TS	Not null	Date	19	(yyyy-MM-dd HH:mm:ss)
MODIFIED_TS	Not null	Date	19	(yyyy-MM-dd HH:mm:ss)

Data Integrity:

Data integrity is validated for the following fields (in line with CDC provided codes, [found here](#)):

- **CVX_CODE:** The data integrity for vaccination API is validated against the list of CVX_CODES as per the CDC standards

Contraindication API

File Name: ContraindicationData.txt

The contraindication API comprises the following fields:

PATIENT_ID: This attribute represents the unique patient identifier.

CVX_CODE: This field represents the standardized code used to indicate the vaccination that was administered.

IS_IMMUNITY: This field should be "Y" if the contraindication indicates the patient has immunity; "N" otherwise.

EXEMPTION_IND: An exemption indicates either the patient chose not to receive a vaccination (personal, religious reasons), or the physician chose not to administer it (temporary illness, underlying disorder). A "Y" value in this field represents an exemption; the field should be contain "N" otherwise.

CONTRAINDICTION_IND: A contraindication represents the reason the patient could not or should not receive a vaccine (allergy, negative reaction, immunity). A "Y" value in this field represents a contraindication; the field should contain an "N" otherwise.

IS_MEDICAL: Exemptions may be classified as Medical (Underlying Issues...) or Non-Medical (religious reasons...). A "Y" value in this field represents a Medical Exemption; the field should contain an "N" otherwise.

CREATED_TS: This field represents the date and timestamp when the record was created.

MODIFIED_TS: This field represents the date and timestamp when the record was modified.

Data Validation for Contraindication API:

Attribute	Null Check	Data Type	Length	Format
PATIENT_ID	Not null	Integer	10	Must be a whole number value less than 2,147,483,647.
CVX_CODE	Not null	String	25	
IS_IMMUNITY	Nullable	String	1	"Y"
EXEMPTION_IND	Nullable	String	1	"Y"
CONTRAINDICTION_IND	Nullable	String	1	"Y"
IS_MEDICAL	Nullable	String	1	"Y"
CREATED_TS	Not null	Date	19	(yyyy-MM-dd HH:mm:ss)
MODIFIED_TS	Not null	Date	19	(yyyy-MM-dd HH:mm:ss)

Data Integrity:

Data integrity is validated for the following fields (in line with CDC provided codes [found here](#)):

- **CVX_CODE:** The data integrity for the contraindication API is validated against the list of CVX_CODES as per the CDC standards

Patient Provider Mapping API

File Name: PatientProviderData.txt

The Patient Provider comprises of following fields:

PATIENT_ID: This attribute represents a unique patient identifier.

OWNER_ORG: This attribute represents the ID of the Organization that at any time was responsible for this patient.

OWNER_FAC: This attribute represents the ID of the Facility that at any time was responsible for this patient. The Facility represented here must exist under the Organization represented by OWNER_ORG.

IS_PRIMARY: A "Y" value in this field indicates the Provider represented by OWNER_ORG and OWNER_FAC, which is the current owner or primary owner of the patient represented by PATIENT_ID.

CREATED_TS: This attribute represents the date the patient represented by PATIENT_ID became associated with the provider represented by OWNER_ORG and OWNER_FAC.

MODIFIED_TS: This attribute represents the date of the last time the relationship between the patient represented by PATIENT_ID and the provider represented by OWNER_ORG and OWNER_FAC was modified.

Data Validation for Patient Provider API:

Attribute	Null Check	Data Type	Length	Format
PATIENT_ID	Not null	Integer	10	Must be a whole number value less than 2,147,483,647.
OWNER_ORG	Not null	Integer	10	
OWNER_FAC	Not null	Integer	10	
IS_PRIMARY	Not null	String	1	"Y"
CREATED_TS	Not null	Date	19	(yyyy-MM-dd HH:mm:ss)
MODIFIED_TS	Not null	Date	19	(yyyy-MM-dd HH:mm:ss)

User Data API

File Name: UserData.txt

The User Data API comprises of following fields:

USER_ID: The unique User ID and/or User Name that represents the user.

FIRST_NAME: The First Name of the person associated with this User ID.

LAST_NAME: The Last Name of the person associated with this User ID.

USER_TYPE: Identifies if this is a "State" or "Provider" Level User.

SRC_ORG_ID: This field represents the Organization with which this user is associated.

SRC_FAC_ID: This field represents the Facility with which this user is associated.

EMAIL: The unique email address associated to this user. Must be a valid email address and contain no spaces. Note that this is not a required field for IWeb implementations of SMaRT AFIX.

INACTIVE_STATUS: This field represents whether the user is Inactive or Active. A value of *Y* indicates the user is Inactive. A value of *N* indicates the user is Active.

MULTI-PROVIDER: This field represents whether or not the user is eligible to be added to a provider group. A value of *Y* indicates the user is eligible to be added to a provider group. A value of *N* indicates the user is not eligible.

CREATED_TS: This field represents the Date and timestamp when the user was created in the source system.

MODIFIED_TS: This field represents the date and timestamp when the user was last modified in the source system.

Data Validation for User Data API:

Attribute	Null Check	Data Type	Length	Format
USER_ID	Not null	String	100	
FIRST_NAME	Nullable	String	500	
LAST_NAME	Nullable	String	500	
USER_TYPE	Not null	String	100	
SRC_ORG_ID	Nullable	Integer	10	
SRC_FAC_ID	Nullable	Integer	10	
EMAIL	Not null	String	100	
INACTIVE_STATUS	Nullable	String	9	"Y" or "N"
MULTI_PROVIDER	Nullable	String	9	"Y" or "N"
CREATED_TS	Not null	Date	19	(yyyy-MM-dd HH:mm:ss)
MODIFIED_TS	Not null	Date	19	(yyyy-MM-dd HH:mm:ss)

Data Integrity:

The only valid values for USER_TYPE are "State" and "Provider". Additionally, if the user type is set to "Provider", SRC_ORG_ID and SRC_FAC_ID must be present.

If SRC_ORG_ID and SRC_FAC_ID are present, they must correspond to an existing provider found in the Provider API.