

# **NEMSIS**

## **Version 2 to Version 3 Translation**

### **Based on**

**NHTSA Version 2.2.1**

**NHTSA Version 3.4.0**

**Revision Date: July 13, 2016**

**Funded by  
National Highway Traffic Safety Administration (NHTSA)  
Office of Emergency Medical Services**

**[www.NEMSIS.org](http://www.NEMSIS.org)**

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V2 Element

D01\_01 EMS Agency Number

EMSAgencyNumber	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

V3 Element

dAgency.01 EMS Agency Unique State ID

EMSAgencyStateID	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Not precise, but dAgency.01 is mandatory in v3.

Mapping

V2 Pattern

V3 Replacement

V2 Element

D01\_01 EMS Agency Number

EMSAgencyNumber	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dAgency.02 EMS Agency Number

EMSAgencyNumber	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

V3 Replacement

.

V2 Element

D01\_02 EMS Agency Name

EMSAgencyName	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dAgency.03 EMS Agency Name

EMSAgencyName	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D01\_03 EMS Agency State

State	
Null Values	No
Is Nillable	No
Recurrence	1 : M

V3 Element

dAgency.04 EMS Agency State

ANSIStateCode	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Maps from FIPS 5 to ANSI INCITS 38. The transition was an oversight change only. There were no changes in the numeric codes. v2 allows length 2 to 3. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[0-9]{2}\$')

V3 Replacement

.  
00

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

V2 Element

D01\_03 EMS Agency State

State	
Null Values	No
Is Nillable	No
Recurrence	1 : M

V3 Element

dAgency.05 EMS Agency Service Area States

ANSIStateCode	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Not precise, but dAgency.05 is mandatory in v3.

Maps from FIPS 5 to ANSI INCITS 38. The transition was an oversight change only. There were no changes in the numeric codes. v2 allows length 2 to 3. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[0-9]{2}\$')

V3 Replacement

.

00

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

V2 Element

D01\_03 EMS Agency State

State	
Null Values	No
Is Nillable	No
Recurrence	1 : M

V3 Element

dConfiguration.01 State Associated with the Certification/Licensure Levels

ANSIStateCode	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Not precise, but dConfiguration.01 is mandatory in v3.

Maps from FIPS 5 to ANSI INCITS 38. The transition was an oversight change only. There were no changes in the numeric codes. v2 allows length 2 to 3. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[0-9]{2}\$')

V3 Replacement

.

00

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

V2 Element

D01\_04 EMS Agency County

AgencyCounty	
Null Values	No
Is Nillable	No
Recurrence	1 : M

V3 Element

dAgency.06 EMS Agency Service Area County(ies)

ANSICountyCode	
Null Values	No
Is Nillable	No
Recurrence	1 : M

Comment

If a county is not within one of the states in v2 D01\_03, it is not mapped.  
Maps from FIPS 6 to ANSI INCITS 31. The transition was an oversight change only. There were no changes in the numeric codes. v2 allows length 2 to 5. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[0-9]{5}\$')

V3 Replacement

.  
00000

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.



*V2 Element***D01\_05 Primary Type of Service**

PrimaryTypeOfService	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

*V3 Element***dAgency.09 Primary Type of Service**

TypeOfService	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment
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Mapping
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*V2 Pattern**V3 Replacement*

9920001

911 Response (Scene) with Transport Capability

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

5610	911 Response (Scene) with Transport Capability	9920001	911 Response (Scene) with Transport Capability
5620	911 Response (Scene) without Transport Capability	9920003	911 Response (Scene) without Transport Capability
5630	Air Medical	9920005	Air Medical
5640	Hazmat	9920011	Hazmat
5650	Medical Transport (Convalescent)	9920013	Medical Transport (Convalescent, Interfacility Transfer Hospital and Nursing Home)
5660	Paramedic Intercept	9920007	ALS Intercept
5670	Rescue	9920015	Rescue
5680	Speciality Care Transport	9920019	Critical Care (Ground)

*V2 Element***D01\_06 Other Types of Service**

OtherTypesOfService	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment
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Mapping
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*V3 Element***dAgency.10 Other Types of Service**

TypeOfService	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : M

*V2 Pattern*

5690	911 Response (Scene) with Transport Capability
5700	911 Response (Scene) without Transport Capability
5710	Air Medical
5720	Hazmat
5730	Medical Transport (Convalescent)
5740	Paramedic Intercept
5750	Rescue
5760	Speciality Care Transport

*V3 Replacement*

9920001	911 Response (Scene) with Transport Capability
9920003	911 Response (Scene) without Transport Capability
9920005	Air Medical
9920011	Hazmat
9920013	Medical Transport (Convalescent, Interfacility Transfer Hospital and Nursing Home)
9920007	ALS Intercept
9920015	Rescue
9920019	Critical Care (Ground)

*V2 Element***D01\_07 Level of Service**

DemographicStateCertificationLicensureLevels	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

*V3 Element***dAgency.11 Level of Service**

StateCertificationLicensureLevels	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

**Comment**

Not precise. v2 defines as the highest level of service available for every call. v3 defines as the minimum level of service for every call. The definitions are equivalent, but the v2 definition was probably misinterpreted in many cases.

v2 also includes DescriptiveText, which is a string of length 2 to 100.

**Mapping***V2 Pattern**V3 Replacement*

9917011 EMT-Basic

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

6090	EMT-Basic	9917011	EMT-Basic
6100	EMT-Intermediate	9917013	EMT-Intermediate
6110	EMT-Paramedic	9917015	EMT-Paramedic
6111	Nurse	9917031	Registered Nurse
9917025 Nurse Practitioner and 9917029 Licensed Practical Nurse (LPN) are also appropriate v3 replacements.			
6112	Physician	9917019	Physician
6120	First Responder	9917009	First Responder

*V2 Element***D01\_07 Level of Service**

DemographicStateCertificationLicensureLevels	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

*V3 Element***eResponse.15 Level of Care of This Unit**

UnitLevelOfCare	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

**Comment**

Not precise, but eResponse.15 is mandatory in v3. If mapping from E04\_03 results in no matches, this mapping is used. v2 also includes DescriptiveText, which is a string of length 2 to 100.

**Mapping***V2 Pattern**V3 Replacement*

2215013

ALS-Paramedic

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value. Four-fifths of records in the National EMS Database have a Paramedic level of service.

6090	EMT-Basic	2215003	BLS-Basic/EMT
6100	EMT-Intermediate	2215011	ALS-Intermediate
2215007 BLS-Intermediate is also an appropriate v3 replacement.			
6110	EMT-Paramedic	2215013	ALS-Paramedic
6111	Nurse	2215017	ALS-Nurse
6112	Physician	2215019	ALS-Physician
6120	First Responder	2215001	BLS-First Responder/EMR

*V2 Element*

## D01\_08 Organizational Type

OrganizationalType	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

*V3 Element*

## dAgency.13 Organizational Type

OrganizationalType	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

*V2 Pattern*

5810	Community, Non-Profit
5820	Fire Department
5830	Governmental, Non-Fire
5840	Hospital
5850	Private, Non_Hospital
5860	Tribal

*V3 Replacement*

9912007	Private, Nonhospital
9912001	Fire Department
9912003	Governmental, Non-Fire
9912005	Hospital
9912007	Private, Nonhospital
9912009	Tribal

*V2 Element***D01\_08 Organizational Type**

OrganizationalType	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

*V3 Element***dAgency.14 EMS Agency Organizational Tax Status**

AgencyOrganizationalTaxStatus	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

**Comment**

Not precise, but dAgency.14 is mandatory in v3.

**Mapping***V2 Pattern*

5810	Community, Non-Profit
5820	Fire Department
Not precise.	
5830	Governmental, Non-Fire
5840	Hospital
Not precise.	
5850	Private, Non_Hospital
Not precise.	
5860	Tribal
Not precise.	

*V3 Replacement*

1018005	Not For Profit
1018003	Other (e.g., Government)
1018003	Other (e.g., Government)
1018003	Other (e.g., Government)
1018003	Other (e.g., Government)
1018003	Other (e.g., Government)
1018003	Other (e.g., Government)

*V2 Element*

## D01\_09 Organization Status

OrganizationStatus	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

*V3 Element*

## dAgency.12 Organization Status

OrganizationStatus	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

*V2 Pattern*

5870	Mixed
5880	Non-Volunteer
5890	Volunteer

*V3 Replacement*

1016001	Mixed
1016003	Non-Volunteer
1016005	Volunteer

V2 Element

D01\_10 Statistical Year

StatisticalYear	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dAgency.15 Statistical Calendar Year

Year	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

V3 Replacement

.



V2 Element

D01\_11 Other Agencies In Area

OtherAgenciesInArea	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

V2 Pattern

.

V3 Element

dCustomResults.01 Custom Data Element Result

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

V3 Replacement

.

V2 Element

D01\_12 Total Service Size Area

TotalServiceSizeArea	
Null Values	No
Is Nillable	Yes
Recurrence	1 : 1

V3 Element

dAgency.16 Total Primary Service Area Size

AnnualAgencyStatistics	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

v2 allows up to 100,000,000. v3 allows up to 4,000,000.

Mapping

V2 Pattern

number(.)<=4000000  
otherwise

V3 Replacement

.  
4000000

V2 Element

D01\_13 Total Service Area Population

TotalServiceAreaPopulation	
Null Values	No
Is Nillable	Yes
Recurrence	1 : 1

V3 Element

dAgency.17 Total Service Area Population

AnnualAgencyStatistics	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

v2 allows up to 100,000,000. v3 allows up to 4,000,000.

Mapping

V2 Pattern

number(.)<=4000000  
otherwise

V3 Replacement

.  
4000000

V2 Element

D01\_14 911 Call Volume per Year

CallVolumeYear911	
Null Values	No
Is Nillable	Yes
Recurrence	1 : 1

V3 Element

dAgency.18 911 EMS Call Center Volume per Year

AnnualAgencyStatistics	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

v2 allows up to 100,000,000. v3 only allows up to 4,000,000.

Mapping

V2 Pattern

number(.)<=4000000  
otherwise

V3 Replacement

.  
4000000

V2 Element

D01\_15 EMS Dispatch Volume per Year

EMSDispatchVolumeYear	
Null Values	No
Is Nillable	Yes
Recurrence	1 : 1

Comment

v2 allows up to 100,000,000. v3 only allows up to 4,000,000.

Mapping

V2 Pattern

number(.)<=4000000  
otherwise

V3 Element

dAgency.19 EMS Dispatch Volume per Year

AnnualAgencyStatistics	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

.  
4000000

V2 Element

D01\_16 EMS Transport Volume per Year

EMSTransportVolumeYear	
Null Values	No
Is Nillable	Yes
Recurrence	1 : 1

V3 Element

dAgency.20 EMS Patient Transport Volume per Year

AnnualAgencyStatistics	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

v2 allows up to 100,000,000. v3 only allows up to 4,000,000.

Mapping

V2 Pattern

number(.)<=4000000  
otherwise

V3 Replacement

.  
4000000

V2 Element

D01\_17 EMS Patient Contact Volume per Year

EMSPatientContactVolumeYear	
Null Values	No
Is Nillable	Yes
Recurrence	1 : 1

V3 Element

dAgency.21 EMS Patient Contact Volume per Year

AnnualAgencyStatistics	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

v2 allows up to 100,000,000. v3 only allows up to 4,000,000.

Mapping

V2 Pattern

number(.)<=4000000  
otherwise

V3 Replacement

.  
4000000

V2 Element

D01\_18 EMS Billable Calls per Year

EMSBillableCallsYear	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

V3 Element

dAgency.22 EMS Billable Calls per Year

AnnualAgencyStatistics	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

Comment

v2 allows up to 100,000,000. v3 only allows up to 4,000,000.

Mapping

V2 Pattern

number(.)<=4000000  
otherwise

V3 Replacement

.  
4000000



*V2 Element*

## D01\_19 EMS Agency Time Zone

EMSAgencyTimeZone	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

*V3 Element*

## dAgency.23 EMS Agency Time Zone

EMSAgencyTimeZone	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

*V2 Pattern*

5900	GMT-11:00 Midway Island, Somoa
5910	Hawaii
5920	Alaska
5930	Pacific Time
5940	Mountain Time
5950	Central Time
5960	Eastern Time
5970	Atlantic Time

*V3 Replacement*

1027017	GMT-11:00 Midway Island, Samoa
1027015	GMT-10:00 Hawaii
1027013	GMT-09:00 Alaska
1027011	GMT-08:00 Pacific Time
1027009	GMT-07:00 Mountain Time
1027007	GMT-06:00 Central Time
1027005	GMT-05:00 Eastern Time
1027003	GMT-04:00 Atlantic Time

V2 Element

D01\_20 EMS Agency Daylight Savings Time Use

EMSAgencyDaylightSavingsTimeUse	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

0	No
1	Yes

V3 Element

dAgency.24 EMS Agency Daylight Savings Time Use

YesNoValues	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

9923001	No
9923003	Yes

V2 Element

D01\_21 National Provider Identifier

NationalProviderIdentifier	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

v2 allows length 3 to 10. v3 requires length 10.

Mapping

V2 Pattern

.

V3 Element

dAgency.25 National Provider Identifier

NationalProviderIdentifier	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

V3 Replacement

substring(concat('0000000000', .), string-length(.)+1, 10)

V2 Element

D02\_01 Agency Contact Last Name

DemographicLastName	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dContact.02 Agency Contact Last Name

PersonLastName	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D02\_02 Agency Contact Middle Name/Initial

MiddleInitialName	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dContact.04 Agency Contact Middle Name/Initial

PersonMiddleName	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D02\_03 Agency Contact First Name

FirstName	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dContact.03 Agency Contact First Name

PersonFirstName	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D02\_04 Agency Contact Address

StreetAddress	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dContact.05 Agency Contact Address

StreetAddress	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D02\_05 Agency Contact City

City	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

v2 allows length 2 to 30 and specifies the use of FIPS. v3 allows any Positive Integer and specifies the use of GNIS. To add mappings, add entries to v2v3ValueMappingvCity or load them from files downloaded from the "State Files with Federal Codes" section at [http://geonames.usgs.gov/domestic/download\\_data.htm](http://geonames.usgs.gov/domestic/download_data.htm). If multiple mappings exist for a FIPS code within a state, priority is given to codes with a census class code that starts with "C", then "P".

Mapping

V2 Pattern

51000City of New York

V3 Element

dContact.06 Agency Contact City

CityGnisCode	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

2395220City of New York



V2 Element

D02\_06 Agency Contact State

State	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

dContact.07 Agency Contact State

ANSIStateCode	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

Comment

Maps from FIPS 5 to ANSI INCITS 38. The transition was an oversight change only. There were no changes in the numeric codes. v2 allows length 2 to 3. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[0-9]{2}\$')

V3 Replacement

.  
00

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

V2 Element

D02\_07 Agency Contact Zip Code

DemographicZip	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

V3 Element

dContact.08 Agency Contact ZIP Code

ZIP	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

Comment

v2 allows any String, unconstrained. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^([0-9]{5})|([0-9]{5})-([0-9]{4})|([0-9]{5})-([0-9]{5})|([A-Z][0-9][A-Z] [0-9][A-Z][0-9])\$')

V3 Replacement

normalize-space(.)

V2 Element

D02\_08 Agency Contact Telephone Number

TelephoneNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

dContact.10 Agency Contact Phone Number

PhoneNumber	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : M

Comment

v3 @PhoneNumberType is set to 9913009 Work.  
v2 allows any String, unconstrained. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[2-9][0-9]-[2-9][0-9][0-9][0-9][0-9]\$')

matches(normalize-space(.),'^[2-9][0-9][0-9][2-9][0-9][0-9][0-9][0-9]\$')

matches(normalize-space(.),'^\([2-9][0-9]\) [2-9][0-9][0-9]-[0-9][0-9][0-9]\$')

V3 Replacement

normalize-space(.)

replace(normalize-space(.),'([2-9][0-9])([2-9][0-9])([0-9][0-9][0-9])','\$1-\$2-\$3')

replace(normalize-space(.),'([2-9][0-9]) ([2-9][0-9][0-9]-[0-9][0-9][0-9])','\$1-\$2')

V2 Element

D02\_09 Agency Contact Fax Number

TelephoneNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

dContact.10 Agency Contact Phone Number

PhoneNumber	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : M

Comment

v2 allows any String, unconstrained. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[2-9][0-9][0-9]-[2-9][0-9][0-9][0-9][0-9][0-9]\$')

matches(normalize-space(.),'^[2-9][0-9][0-9][2-9][0-9][0-9][0-9][0-9]\$')

matches(normalize-space(.),'^\([2-9][0-9][0-9]\) [2-9][0-9][0-9]-[0-9][0-9][0-9][0-9]\$')

V3 Replacement

normalize-space(.)

replace(normalize-space(.),'([2-9][0-9][0-9])([2-9][0-9][0-9])([0-9][0-9][0-9])','\$1-\$2-\$3')

replace(normalize-space(.),'\([2-9][0-9][0-9]\) ([2-9][0-9][0-9]-[0-9][0-9][0-9])','\$1-\$2')

V2 Element

D02\_10 Agency Contact Email Address

EmailAddress	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dContact.11 Agency Contact Email Address

EmailAddress	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : M

V3 Replacement

.

V2 Element

D02\_11 Agency Contact Web Address

WebAddress	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

v2 allows length 2 to 100. v3 allows length 3 to 255.

Mapping

V2 Pattern

string-length(.)>=3

V3 Element

dContact.12 EMS Agency Contact Web Address

WebAddress	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D03\_01 Agency Medical Director Last Name

LastName	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dContact.02 Agency Contact Last Name

PersonLastName	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D03\_02 Agency Medical Director Middle Name/Initial

MiddleInitialName	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dContact.04 Agency Contact Middle Name/Initial

PersonMiddleName	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.



V2 Element

D03\_03 Agency Medical Director First Name

FirstName	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dContact.03 Agency Contact First Name

PersonFirstName	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D03\_04 Agency Medical Director Address

StreetAddress	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dContact.05 Agency Contact Address

StreetAddress	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D03\_05 Agency Medical Director City

City	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

dContact.06 Agency Contact City

CityGnisCode	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

Comment

v2 allows length 2 to 30 and specifies the use of FIPS. v3 allows any Positive Integer and specifies the use of GNIS. To add mappings, add entries to v2v3ValueMappingvCity or load them from files downloaded from the "State Files with Federal Codes" section at [http://geonames.usgs.gov/domestic/download\\_data.htm](http://geonames.usgs.gov/domestic/download_data.htm). If multiple mappings exist for a FIPS code within a state, priority is given to codes with a census class code that starts with "C", then "P".

Mapping

V2 Pattern

51000                      City of New York

V3 Replacement

2395220                      City of New York

V2 Element

D03\_06 Agency Medical Director State

State	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

dContact.07 Agency Contact State

ANSIStateCode	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

Comment

Maps from FIPS 5 to ANSI INCITS 38. The transition was an oversight change only. There were no changes in the numeric codes. v2 allows length 2 to 3. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[0-9]{2}\$')

V3 Replacement

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This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

V2 Element

D03\_07 Agency Medical Director Zip Code

Zip	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

dContact.08 Agency Contact ZIP Code

ZIP	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

Comment

v2 allows any String, unconstrained. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^([0-9]{5})|([0-9]{5})-([0-9]{4})|([0-9]{5})-([0-9]{5})|([A-Z][0-9][A-Z] [0-9][A-Z][0-9])\$')

V3 Replacement

normalize-space(.)

V2 Element

D03\_08 Agency Medical Director Telephone Number

TelephoneNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

dContact.10 Agency Contact Phone Number

PhoneNumber	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : M

Comment

v2 allows any String, unconstrained. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[2-9][0-9][0-9]-[2-9][0-9][0-9][0-9][0-9][0-9]\$')

matches(normalize-space(.),'^[2-9][0-9][0-9][2-9][0-9][0-9][0-9][0-9][0-9]\$')

matches(normalize-space(.),'^\([2-9][0-9][0-9]\) [2-9][0-9][0-9]-[0-9][0-9][0-9][0-9]\$')

V3 Replacement

normalize-space(.)

replace(normalize-space(.),'([2-9][0-9][0-9])([2-9][0-9][0-9])([0-9][0-9][0-9])','\$1-\$2-\$3')

replace(normalize-space(.),'\([2-9][0-9][0-9]\) ([2-9][0-9][0-9]-[0-9][0-9][0-9])','\$1-\$2')

V2 Element

D03\_09 Agency Medical Director Fax Number

TelephoneNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

dContact.10 Agency Contact Phone Number

PhoneNumber	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : M

Comment

v2 allows any String, unconstrained. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[2-9][0-9][0-9]-[2-9][0-9][0-9][0-9][0-9][0-9]\$')

matches(normalize-space(.),'^[2-9][0-9][0-9][2-9][0-9][0-9][0-9][0-9][0-9]\$')

matches(normalize-space(.),'^\([2-9][0-9][0-9]\) [2-9][0-9][0-9]-[0-9][0-9][0-9][0-9]\$')

V3 Replacement

normalize-space(.)

replace(normalize-space(.),'([2-9][0-9][0-9])([2-9][0-9][0-9])([0-9][0-9][0-9])','\$1-\$2-\$3')

replace(normalize-space(.),'\([2-9][0-9][0-9]\) ([2-9][0-9][0-9]-[0-9][0-9][0-9])','\$1-\$2')

*V2 Element***D03\_10 Agency Medical Director's Medical Specialty**

AgencyMedicalDirectorsMedicalSpecialty	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

*V3 Element***dContact.14 Agency Medical Director Board Certification Type**

AgencyMedicalDirectorBoardCertificationType	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : M

Comment
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Mapping
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*V2 Pattern*

5980	Anesthesiology
5990	Cardiology
Cardiovascular Medicine is a subspecialty of Internal Medicine.	
6000	Emergency Medicine
6010	Family Practice
6020	General Practice (not board certified)
6030	Internal Medicine
6040	Obstetrics and Gynecology
6050	Orthopedics
6060	Other
Not supported in v3.	
6070	Pediatrics
6080	Surgery

*V3 Replacement*

1114003	Anesthesiology
1114013	Internal Medicine
1114009	Emergency Medicine
1114011	Family Medicine
1114019	None (Not Board Certified)
1114013	Internal Medicine
1114021	Obstetrics and Gynecology
1114025	Orthopedic Surgery
1114029	Pediatrics
1114037	Surgery



V2 Element

D03\_11 Agency Medical Director Email Address

EmailAddress	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dContact.11 Agency Contact Email Address

EmailAddress	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : M

V3 Replacement

.

*V2 Element***D04\_01 State Certification Licensure Levels**

DemographicStateCertificationLicensureLevels	
Null Values	No
Is Nillable	No
Recurrence	0 : M

*V3 Element***dConfiguration.02 State Certification/Licensure Levels**

LicensureLevels	
Null Values	No
Is Nillable	No
Recurrence	1 : M

**Comment**

v2 also includes DescriptiveText, which is a string of length 2 to 100.

**Mapping***V2 Pattern**V3 Replacement*

9911019

Other

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

6090	EMT-Basic	9911009	EMT-Basic
6100	EMT-Intermediate	9911011	EMT-Intermediate
6110	EMT-Paramedic	9911013	EMT-Paramedic
6111	Nurse	9911033	Registered Nurse
9911027 Nurse Practitioner and 9911031 Licensed Practical Nurse (LPN) are also appropriate v3 replacements.			
6112	Physician	9911021	Physician
6120	First Responder	9911015	First Responder

V2 Element

D04\_02 EMS Unit Call Sign

EMSUnitNumber	
Null Values	No
Is Nillable	No
Recurrence	0 : M

V3 Element

dConfiguration.16 Crew Call Sign

AgencyCallSign	
Null Values	No
Is Nillable	No
Recurrence	1 : M

Comment

v2 allows length 2 to 30. v3 allows length 1 to 50.

Mapping

V2 Pattern

.

V3 Replacement

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—  
This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

V2 Element

D04\_03 Zones

DemographicZoneNumber	
Null Values	No
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

V2 Pattern

V3 Element

dCustomResults.01 Custom Data Element Result

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

V3 Replacement

*V2 Element*

## D04\_04 Procedures

DemographicProcedure	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

*V3 Element*

## dConfiguration.07 EMS Agency Procedures

snomed	
Null Values	No
Is Nillable	No
Recurrence	1 : M

## Comment

## Mapping

*V2 Pattern**V3 Replacement*

71388002

Procedure

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

1.181	CNS Catheter-Epidural Maintenance	424432007	Epidural catheter maintenance
1.182	CNS Catheter-Intraventricular Maintenance	230937006	Procedure for monitoring intracranial pressure
Not precise.			
100.100	Rescue	83887000	Rescue vehicle
Rescue vehicle (a device, not a procedure) should only be used for v2.2.1 to v3.x mapping purposes. This description does not represent rescue efforts made by the responders to remove the patient from the environment.			
101.202	Activation-Fire Rehabilitation Specialty Service/Response Team	165189005	Medical evaluation for rehabilitation
Not precise.			
101.205	Activation-Social Services Notification/Referral	306238000	Referral to Social Services
101.500	Contact Medical Control	304562007	Informing doctor
31.110	Airway-Needle Cricothyrotomy	232689008	Percutaneous cricothyroidotomy
31.120	Airway-Surgical Cricothyrotomy	232692007	Open cricothyroidotomy
31.420	Airway-Direct Laryngoscopy	78121007	Direct laryngoscopy
31.421	Airway-Video Laryngoscopy	673005	Indirect laryngoscopy
34.041	Chest Decompression	182705007	Tension pneumothorax relief
34.042	Chest Tube Placement	264957007	Insertion of pleural tube drain
37.000	Pericardiocentesis	309849004	Pericardiocentesis
37.611	Intra-Aortic Balloon Pump Maintenance	34475007	Intraaortic balloon pump maintenance
37.612	Left Ventricular Assist Device Maintenance	386237008	Circulatory care: mechanical assist device
38.910	Arterial Access-Blood Draw	55841001	Arterial puncture for withdrawal of blood for diagnosis
38.990	Venous Access-Blood Draw	396540005	Phlebotomy
38.991	Venous Access-Existing Catheter	397901004	Pre-existing line accessed
38.992	Venous Access-Extremity	392230005	Catheterization of vein
38.993	Venous Access-External Jugular Line	405427009	Catheterization of external jugular vein
38.994	Venous Access-Femoral Line	405442007	Catheterization of common femoral vein
38.995	Blood Glucose Analysis	33747003	Glucose measurement, blood
39.995	Venous Access-Internal Jugular Line	405425001	Catheterization of internal jugular vein
39.996	Venous Access-Subclavian Line	405430002	Catheterization of subclavian vein
39.997	Venous Access-Discontinue	103715008	Removal of catheter

424287005 Removal of peripheral intravenous catheter is also an appropriate v3 replacement.

39.998	Venous Access-Umbilical Vein Cannulation	42550007	Catheterization of umbilical vein
41.920	Venous Access-Intraosseous Adult	430824005	Intraosseous cannulation
41.921	Venous Access-Intraosseous Pediatric	430824005	Intraosseous cannulation
57.940	Urinary Catheterization	410024004	Insertion of catheter into urinary bladder
73.590	Childbirth	236973005	Delivery procedure
79.700	Joint Reduction/Relocation	58825001	Closed reduction of dislocation
86.090	Escharotomy	70177008	Escharotomy
86.280	Decontamination	409530006	Decontamination
89.391	Capnography (CO2 Measurement)	284029005	Respired carbon dioxide monitoring
89.392	Pulse Oximetry	252465000	Pulse oximetry
89.510	Cardiac Monitor	88140007	Cardiac monitor surveillance
89.590	Orthostatic Blood Pressure Measurement	425058005	Taking orthostatic vital signs
89.599	"Patient Monitoring of Pre-existing Devices, Equipment, or Ongoing Medications"	182777000	Monitoring of patient
89.610	Arterial Line Maintenance	422744007	Arterial catheter care
89.620	Venous Access-Central Line Maintenance	226005007	Care of central line
89.640	Venous Access-Swan Ganz Maintenance	42340005	Pulmonary artery wedge pressure monitoring
89.700	Assessment-Adult	422440002	Adult continuous physical assessment
89.701	Assessment-Pediatric	423850004	Pediatric continuous physical assessment
423589000 Newborn continuous physical assessment may also be an appropriate v3 replacement.			
89.702	Pain Measurement	225399009	Pain assessment (procedure)
89.703	Temperature Measurement	56342008	Temperature taking (procedure)
89.704	Thrombolytic Screen	20135006	Screening procedure
Not precise.			
89.820	12 Lead ECG-Obtain	268400002	12 lead ECG
93.055	Wound Care-Taser Barb Removal	302421003	Removal of foreign body from skin
Not precise.			
93.056	Wound Care-Tourniquet	20655006	Application of tourniquet
93.057	Wound Care-General	225358003	Wound care
93.058	Wound Care-Irrigation	225116006	Irrigation of wound
93.059	Wound Care-Hemostatic Agent	372045002	Application of chemical hemostatic agents
93.350	"Patient Warming (Hot Pack, etc.)"	431949004	Active external warming of subject
93.450	Splinting-Traction	302488007	Application of traction using a traction device
59900003 Manual and mechanical traction is also an appropriate v3 replacement.			
93.540	Splinting-Basic	79321009	Application of splint
93.580	MAST	448970001	Application of pressure trouser (procedure)
93.591	Spinal Immobilization	426498007	Stabilization of spine
398041008 Cervical spine immobilization is also an appropriate v3 replacement.			
93.900	Airway-CPAP	47545007	Continuous positive airway pressure ventilation treatment
93.910	Airway-Respirator Operation (BLS)	40617009	Artificial respiration
93.930	Airway-Bagged (via tube)	243140006	Lung inflation by intermittent compression of reservoir bag
93.931	Airway-Bagged (via BVMask)	425447009	Bag valve mask ventilation
93.940	Airway-Nebulizer Treatment	56251003	Nebulizer treatment
96.010	Airway-Nasal	182692007	Nasopharyngeal airway insertion
96.020	Airway-Oral	7443007	Insertion of oropharyngeal airway
96.030	Airway-EOA/EGTA	232673005	Obturator airway insertion

96.040	Airway-Orotracheal Intubation	232674004	Orotracheal intubation
96.041	Airway-Nasotracheal Intubation	232679009	Nasotracheal intubation
96.042	Airway-Rapid Sequence Induction	241689008	Rapid sequence induction
96.051	Airway-Combitube Blind Insertion Airway Device	429705000	Insertion of esophageal tracheal combitube
96.052	Airway-Laryngeal Mask Blind Insertion Airway Device	424979004	Laryngeal mask airway insertion
96.053	Airway-King LT Blind Insertion Airway Device	450611000124100	Insertion of Single Lumen Supraglottic Airway Device
96.070	Gastric Tube Insertion-Inserted Nasally	87750000	Insertion of nasogastric tube
96.071	Gastric Tube Insertion-Inserted Orally	235425002	Insertion of orogastric tube
96.700	Airway-Ventilator Operation	8948006	Assisted ventilation therapy, pressure or volume preset, initiation and management
96.701	Airway-Ventilator with PEEP	45851008	Positive end expiratory pressure ventilation therapy, initiation and management
96.702	Airway-BiPAP	243142003	Dual pressure spontaneous ventilation support
96.703	Airway-Impedance Threshold Device	441893003	Active compression decompression cardiopulmonary resuscitation with use of inspiratory impedance threshold device
96.790	Airway-PEEP	45851008	Positive end expiratory pressure ventilation therapy, initiation and management
96.991	Airway-Intubation Confirm Colorimetric ETCO2	428482009	Colorimetric respired carbon dioxide monitoring
96.993	Airway-Extubation	232708009	Removal of device from airway
97.230	Airway-Change Tracheostomy Tube	2267008	Changing tracheostomy tube
97.231	Airway-Intubation of Existing Tracheostomy Stoma	232685002	Insertion of tracheostomy tube
98.130	"Airway-Cleared, Opened, or Heimlich"	232707004	Removal of foreign body from airway
v2 value 98.131 Airway-Foreign Body Removal also maps to this v3 value. 23690002 Heimlich maneuver is also an appropriate v3 replacement.			
98.131	Airway-Foreign Body Removal	232707004	Removal of foreign body from airway
98.150	Airway-Suctioning	230040009	Airway suction technique
99.290	Injections-SQ/IM	24456005	Injection of soft tissue
76601001 Intramuscular injection and 32282008 Subcutaneous injection are among the children of this code.			
99.600	CPR-Start Compressions and Ventilations	89666000	Cardiopulmonary resuscitation
99.601	CPR by Other External Automated Device	429283006	Mechanically assisted chest compression
Unable to distinguish from AutoPulse or Mechanical Thumper Type Device.			
99.602	CPR-AutoPulse Device	429283006	Mechanically assisted chest compression
Unable to distinguish from Mechanical Thumper or Other External Automated Device.			
99.603	CPR-Mechanical Thumper Type Device	429283006	Mechanically assisted chest compression
Unable to distinguish from AutoPulse or Other External Automated Device.			
99.604	CPR-Precordial Thump Only	225708008	Precordial thump
99.611	CPR-Start Compressions only without Ventilation	69779005	Cardiac resuscitation
99.612	CPR-Start Rescue Breathing without Compressions	37113006	Mouth-to-mouth resuscitation
11140008 Respiratory assist, manual is also an appropriate v3 replacement.			
99.621	Defibrillation-Automated (AED)	450661000124102	Defibrillation using automated external cardiac defibrillator
99.622	Defibrillation-Manual	426220008	External ventricular defibrillation
Unable to distinguish from automated defibrillation.			
99.623	Cardioversion	250980009	Cardioversion
99.624	Cardiac Pacing-External	59218006	Temporary transcutaneous pacing
99.625	Defibrillation-Placement for Monitoring/Analysis	23852006	Cardiac monitoring
99.626	Cardiac Pacing-Transvenous	233178005	Insertion of endocardial electrode for temporary cardiac pacing
99.640	Vagal Maneuver-Carotid Massage	448334008	Carotid sinus massage test

99.641	Vagal Maneuver-Valsalva or Other Vagal Maneuver (Not Carotid Massage)	128968000	Vagal stimulation physiologic challenge
99.810	"Patient Cooling (Cold Pack, etc.)"	431774007	Active external cooling of subject
99.811	Patient Cooling-Post Resuscitation	430189000	Hypothermia induction therapy
99.841	Restraints-Pharmacological	406164000	Chemical restraint
99.842	Restraints-Physical	386423001	Physical restraint



*V2 Element*

## D04\_04 Procedures

DemographicProcedure	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

*V3 Element*

## dConfiguration.15 Patient Monitoring Capability(ies)

PatientMonitoringCapability	
Null Values	No
Is Nillable	No
Recurrence	1 : M

## Comment

Not precise, but dConfiguration.15 is mandatory in v3.

## Mapping

*V2 Pattern**V3 Replacement*

1215015

Pressure Measurement-Non-Invasive (Blood Pressure, etc.)

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

89.391	Capnography (CO2 Measurement)	1215001	Capnography-Numeric
1215003 Capnography-Waveform is also an appropriate v3 replacement.			
89.392	Pulse Oximetry	1215011	Oximetry-Oxygen
89.510	Cardiac Monitor	1215007	ECG-Less than 12 Lead (Cardiac Monitor)
89.820	12 Lead ECG-Obtain	1215005	ECG-12 Lead or Greater
96.700	Airway-Ventilator Operation	1215017	Ventilator-Transport

*V2 Element***D04\_04 Procedures**

DemographicProcedure	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

*V3 Element***dCustomResults.01 Custom Data Element Result**

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

Extends dConfiguration.07

**Comment****Mapping***V2 Pattern*

100.200	Extrication
100.300	Patient Loaded
100.301	Patient Loaded-Helicopter Hot-Load
100.302	Patient Off-Loaded
100.303	Patient Off-Loaded Helicopter Hot Off-Load
101.101	Specialty Center Activation-Adult Trauma
101.102	Specialty Center Activation-Pediatric Trauma
101.103	Specialty Center Activation-Cardiac Arrest
101.104	Specialty Center Activation-STEMI
101.105	Specialty Center Activation-Stroke
101.201	Activation-Advanced Hazmat Specialty Service/Response Team
101.203	Activation-Other Specialty Service/Response Team
101.204	Activation-Rescue Specialty Service/Response Team
101.206	Activation-Tactical or SWAT Specialty Service/Response Team
89.821	12 Lead ECG-Transmitted
96.992	Airway-Intubation Confirm Esophageal Bulb
99.615	CPR-Stop

*V3 Replacement*

100.200	Extrication
100.300	Patient Loaded
100.301	Patient Loaded-Helicopter Hot-Load
100.302	Patient Off-Loaded
100.303	Patient Off-Loaded Helicopter Hot Off-Load
101.101	Specialty Center Activation-Adult Trauma
101.102	Specialty Center Activation-Pediatric Trauma
101.103	Specialty Center Activation-Cardiac Arrest
101.104	Specialty Center Activation-STEMI
101.105	Specialty Center Activation-Stroke
101.201	Activation-Advanced Hazmat Specialty Service/Response Team
101.203	Activation-Other Specialty Service/Response Team
101.204	Activation-Rescue Specialty Service/Response Team
101.206	Activation-Tactical or SWAT Specialty Service/Response Team
89.821	12 Lead ECG-Transmitted
96.992	Airway-Intubation Confirm Esophageal Bulb
99.615	CPR-Stop

*V2 Element***D04\_05 Personnel Level Permitted to Use the Procedure**

DemographicStateCertificationLicensureLevels	
Null Values	No
Is Nillable	No
Recurrence	0 : M

*V3 Element***dConfiguration.06 EMS Certification Levels Permitted to Perform Each Procedure**

StateCertificationLicensureLevels	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

**Comment**

v2 also includes DescriptiveText, which is a string of length 2 to 100.

**Mapping***V2 Pattern**V3 Replacement*

9917011

EMT-Basic

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

6090	EMT-Basic	9917011	EMT-Basic
6100	EMT-Intermediate	9917013	EMT-Intermediate
6110	EMT-Paramedic	9917015	EMT-Paramedic
6111	Nurse	9917031	Registered Nurse
9917025 Nurse Practitioner and 9917029 Licensed Practical Nurse (LPN) are also appropriate v3 replacements.			
6112	Physician	9917019	Physician
6120	First Responder	9917009	First Responder

*V2 Element*

## D04\_06 Medications Given

DemographicMedicationsGiven	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

*V3 Element*

## dConfiguration.09 EMS Agency Medications

Medication	
Null Values	No
Is Nillable	No
Recurrence	1 : M

## Comment

v2 allows length 2 to 30. v3 allows length 2 to 7 and specifies the use of RxNorm. To add mappings, add entries to v2v3ValueMappingMedication. It is pre-filled with 150 mappings representing 96% of medication administrations with mappable medication names in the National EMS Database.

## Mapping

*V2 Pattern**V3 Replacement*

7806

Oxygen

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

50% Dextrose TTY=SCD.	237653	Glucose 500 MG/ML Injectable Solution
9% NSS TTY=SCD/SY. V2 value is incorrect; it should be 0.9% NSS.	313002	Sodium Chloride 0.9% Injectable Solution
Acetaminophen	161	Acetaminophen
Adenosine	296	Adenosine
Albuterol	435	Albuterol
Albuterol 2.5/ Atrovent 0.5 TTY=MIN.	214199	Albuterol / Ipratropium
Albuterol Sulfate	435	Albuterol
Amiodarone	703	Amiodarone
Amiodarone (Cordarone)	703	Amiodarone
Amiodarone (Cordarone)	703	Amiodarone
ASA	1191	Aspirin
Aspirin	1191	Aspirin
Aspirin (ASA)	1191	Aspirin
Aspirin 81-325 mg	1191	Aspirin
Ativan	6470	Lorazepam
Atropine	1223	Atropine
Atropine Sulfate	1223	Atropine
Atrovent	7213	Ipratropium
Atrovent (Ipratropium Bromide)	7213	Ipratropium
Atrovent 0.5mg /Albuterol 3.0m TTY=MIN.	214199	Albuterol / Ipratropium
Atrovent 0.5mg/Albuterol 3.0mg TTY=MIN.	214199	Albuterol / Ipratropium
Baby Aspirin	1191	Aspirin
Benadryl	3498	Diphenhydramine

Calcium Chloride	1901	Calcium Chloride
Cardizem	3443	Diltiazem
D50	237653	Dextrose 50 % Injectable Solution
TTY=SCD/SY.		
D5W (Dextrose 5% in Water)	309778	Dextrose 5 % Injectable Solution
TTY=SCD/SY.		
D5W w/ 1/2 Normal Saline	309806	Dextrose 5 % / sodium chloride 0.45 % Injectable Solution
TTY=SCD/SY.		
Dexamethasone (Decadron)	3264	Dexamethasone
Dextrose	4850	Glucose
DEXTROSE 50 %	237653	Dextrose 50 % Injectable Solution
TTY=SCD/SY.		
Dextrose 50%	237653	Dextrose 50 % Injectable Solution
TTY=SCD/SY.		
Dextrose 50% (D50)	237653	Dextrose 50 % Injectable Solution
TTY=SCD/SY.		
Diazepam	3322	Diazepam
Diazepam (Valium)	3322	Diazepam
Dilaudid	3423	Hydromorphone
Diltiazem	3443	Diltiazem
Diltiazem (Cardizem)	3443	Diltiazem
Diphenhydramine	3498	diphenhydramine
DIPHENHYDRAMINE (BENADRYL)	3498	diphenhydramine
Diphenhydramine (Benedryl)	3498	diphenhydramine
Dopamine	3628	Dopamine
DuoNeb	204199	Albuterol / Ipratropium
TTY=MIN.		
DuoNeb (0.5 Atrovent/3.0 Albut)	204199	Albuterol / Ipratropium
TTY=MIN. V2 value is contradictory. DuoNeb is not 3.0 albuterol / 0.5 ipratropium.		
EPI 1:10,000	317361	Epinephrine 0.1 MG/ML
TTY=SCDC.		
EPI 1:10000	317361	Epinephrine 0.1 MG/ML
TTY=SCDC.		
Epinephrine	3992	Epinephrine
Epinephrine (1:10,000)	317361	Epinephrine 0.1 MG/ML
TTY=SCDC.		
Epinephrine 1:1,000	328316	Epinephrine 1 MG/ML
TTY=SCDC.		
Epinephrine 1:10	317361	Epinephrine 0.1 MG/ML
TTY=SCDC. V2 value is incorrect. It should be 1:10,000.		
Epinephrine 1:10,000	317361	Epinephrine 0.1 MG/ML
TTY=SCDC.		
Epinephrine 1:1000	328316	Epinephrine 1 MG/ML
TTY=SCDC.		
Epi-Pen Adult	328316	Epinephrine 1 MG/ML
TTY=SCDC.		
Etomidate	4177	Etomidate
Fentanyl	4337	Fentanyl
Fentanyl (Sublimaze)	4337	Fentanyl

Furosemide	4603	Furosemide
Furosemide (Lasix)	4603	Furosemide
Glucagon	4832	Glucagon
Glucose (Oral)	4850	Glucose
Haloperidol (Haldol)	5093	Haloperidol
Heparin	5224	Heparin
Hydromorphone (Dilaudid)	3423	Hydromorphone
IBUPROFEN	5640	Ibuprofen
insulin	5856	Insulin
Ipratropium	7213	Ipratropium
Ipratropium (Atrovent)	7213	Ipratropium
Ketorolac (Toradol)	35827	Ketorolac
Labetalol	6185	Labetalol
Lactated Ringers	35629	Lactated Ringer's Solution
Lasix	4603	Furosemide
Levalbuterol HCL (Xopenex)	237159	Levalbuterol
Lidocaine	6387	Lidocaine
Lopressor	6918	Metoprolol
Lorazepam	6470	Lorazepam
Lorazepam (Ativan)	6470	Lorazepam
LOVENOX	67108	Enoxaparin
Magnesium Sulfate	6585	Magnesium Sulfate
Meperidine (Demerol)	6754	Meperidine
Methylprednisolone	6902	Methylprednisolone
Methylprednisolone (Solu-Medro)	6902	Methylprednisolone
Methylprednisolone/Solu-Medrol	6902	Methylprednisolone
Metoprolol (Lopressor)	6918	Metoprolol
Midazolam	6960	Midazolam
Midazolam (Versed)	6960	Midazolam
Morphine	7052	Morphine
Morphine Sulfate	7052	Morphine
Naloxone	7242	Naloxone
Naloxone (Narcan)	7242	Naloxone
Narcan	7242	Naloxone
Nitro Spray	4917	Nitroglycerin
Nitroglycerin	4917	Nitroglycerin
Nitroglycerin Infusion	4917	Nitroglycerin
Nitroglycerin Paste	4917	Nitroglycerin
Nitroglycerin SL	4917	Nitroglycerin
Nitroglycerin Spray	4917	Nitroglycerin
Nitroglycerin, (spray or tabs)	4917	Nitroglycerin
Nitroglycerine	4917	Nitroglycerin
Nitroglycerine (0.4 mg)	4917	Nitroglycerin
Nitroglycerine SL	4917	Nitroglycerin
Nitroglycerine Spray	4917	Nitroglycerin

Nitroglycerine Tabs	4917	Nitroglycerin
Nitrostat	4917	Nitroglycerin
Norepinephrine	7512	NorEpinephrine
Normal Saline	313002	Sodium Chloride 0.9% Injectable Solution
TTY=SCD/SY. 125464 Normal saline is an appropriate v3 replacement if it was used for irrigation instead of injection.		
Normal Saline (Respiratory Use)	379454	Sodium Chloride Inhalant Solution
TTY=SCDF.		
Normal Saline IV Solution	313002	Sodium Chloride 0.9% Injectable Solution
TTY=SCD/SY. 125464 Normal saline is an appropriate v3 replacement if it was used for irrigation instead of injection.		
Normal Saline Solution	313002	Sodium Chloride 0.9% Injectable Solution
TTY=SCD/SY. 125464 Normal saline is an appropriate v3 replacement if it was used for irrigation instead of injection.		
Ondansetron	26225	Ondansetron
Ondansetron (Zofran)	26225	Ondansetron
Ondansetron	26225	Ondansetron
Oral Glucose	4850	Glucose
Oxygen	7806	Oxygen
Oxygen (non-rebreather mask)	7806	Oxygen
OXYGEN (O2)	7806	Oxygen
OXYGEN ADMINISTRATION	7806	Oxygen
Oxygen by Blow By	7806	Oxygen
Oxygen by BVM	7806	Oxygen
Oxygen by Mask	7806	Oxygen
Oxygen by Nasal Cannula	7806	Oxygen
Oxygen by Nebulizer	7806	Oxygen
Oxygen by Non-Rebreather Mask	7806	Oxygen
Oxygen by Positive Pressure De	7806	Oxygen
PHENERGAN	8745	Promethazine
plavix	32968	clopidogrel
PROMETHAZINE	8745	Promethazine
Promethazine HCl (Phenergan)	8745	Promethazine
Promethazine HCL (Phenergran)	8745	Promethazine
PROPOFOL	8782	Propofol
Rocephin	2193	Ceftriaxone
Rocuronium Bromide (Zemuron)	68139	Rocuronium
Saline	313002	Sodium Chloride 0.9% Injectable Solution
TTY=SCD/SY. 125464 Normal saline is an appropriate v3 replacement if it was used for irrigation instead of injection.		
Sodium Bicarbonate	36676	Sodium Bicarbonate
SODIUM CHLORIDE 0.9%	313002	Sodium Chloride 0.9% Injectable Solution
TTY=SCD/SY. 125464 Normal saline is an appropriate v3 replacement if it was used for irrigation instead of injection.		
Solu-Medro (Methylprednisone S	6902	Methylprednisolone
Solumedrol	6902	Methylprednisolone
Solu-Medrol	6902	Methylprednisolone
Succinylcholine	10154	Succinylcholine
Succinylcholine (Anectine)	10154	Succinylcholine
Thiamine	10454	Thiamine
TORADOL	35827	Ketorolac
Tylenol	5640	Acetaminophen

VALIUM	3322	Diazepam
Vancomycin	11124	Vancomycin
Vasopressin	11149	Vasopressin (USP)
Vecuronium	71535	Vecuronium
Vecuronium (Norcuron)	71535	Vecuronium
Versed	6960	Midazolam
XOPENEX	237159	Levalbuterol
Zofran	26225	Ondansetron



*V2 Element***D04\_07 Personnel Level Permitted to Use the Medication**

DemographicStateCertificationLicensureLevels	
Null Values	No
Is Nillable	No
Recurrence	0 : M

*V3 Element***dConfiguration.08 EMS Certification Levels Permitted to Administer Each Medication**

StateCertificationLicensureLevels	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

**Comment**

v2 also includes DescriptiveText, which is a string of length 2 to 100.

**Mapping***V2 Pattern**V3 Replacement*

9917011

EMT-Basic

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

6090	EMT-Basic	9917011	EMT-Basic
6100	EMT-Intermediate	9917013	EMT-Intermediate
6110	EMT-Paramedic	9917015	EMT-Paramedic
6111	Nurse	9917031	Registered Nurse
9917025 Nurse Practitioner and 9917029 Licensed Practical Nurse (LPN) are also appropriate v3 replacements.			
6112	Physician	9917019	Physician
6120	First Responder	9917009	First Responder

*V2 Element*

## D04\_08 Protocol

DemographicProtocolsUsed	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

*V3 Element*

## dConfiguration.10 EMS Agency Protocols

ProtocolsUsed	
Null Values	No
Is Nillable	No
Recurrence	1 : M

## Comment

v2 also includes DescriptiveText, which is a string of length 2 to 100.

## Mapping

*V2 Pattern**V3 Replacement*

9914075

General-Universal Patient Care/ Initial Patient Contact

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

6720	Abdominal Pain	9914109	Medical-Abdominal Pain
6730	Airway	9914001	Airway
6740	Airway-Failed	9914003	Airway-Failed
6760	Airway-RSI	9914007	Airway-Rapid Sequence Induction (RSI-Paralytic)
6770	Allergic Reaction/Anaphylaxis	9914111	Medical-Allergic Reaction/Anaphylaxis
6780	Altered Mental Status	9914113	Medical-Altered Mental Status
6790	Asystole	9914011	Cardiac Arrest-Asystole
6800	Back Pain	9914051	General-Back Pain
6810	Behavioral	9914053	General-Behavioral/Patient Restraint
6820	Bites and Envenomations	9914079	Injury-Bites and Envenomations-Land
9914081 Injury-Bites and Envenomations-Marine is also an appropriate v3 replacement.			
6830	Bradycardia	9914115	Medical-Bradycardia
6840	Burns	9914085	Injury-Burns-Thermal
6850	Cardiac Arrest	9914055	General-Cardiac Arrest
6860	Cardiac Chest Pain	9914117	Medical-Cardiac Chest Pain
6870	Childbirth/Labor	9914155	OB/GYN-Childbirth/Labor/Delivery
6875	Cold Exposure	9914023	Environmental-Cold Exposure
6880	Dental Problems	9914057	General-Dental Problems
6881	Device Malfunction	9914069	General-Medical Device Malfunction
6885	Diarrhea	9914119	Medical-Diarrhea
6890	Drowning/Near Drowning	9914093	Injury-Drowning/Near Drowning
6892	Diving Emergencies	9914091	Injury-Diving Emergencies
6900	Electrical Injuries	9914095	Injury-Electrical Injuries
6910	Epistaxis	9914059	General-Epistaxis
6911	Exposure-Airway Irritants	9914033	Exposure-Airway/Inhalation Irritants
6912	Exposure-Biological/Infectious	9914035	Exposure-Biological/Infectious
6913	Exposure-Blistering Agents	9914037	Exposure-Blistering Agents

6914	Exposure-Cyanide	9914043	Exposure-Cyanide
6915	Exposure-Nerve Agents	9914047	Exposure-Nerve Agents
6916	Exposure-Radiologic Agents	9914049	Exposure-Radiologic Agents
6917	Exposure-Riot Control Agents	9914033	Exposure-Airway/Inhalation Irritants
Not precise.			
6920	Extremity Trauma	9914097	Injury-Extremity
6925	Eye Trauma	9914099	Injury-Eye
6930	Fever	9914061	General-Fever
6935	Gynecologic Emergencies	9914159	OB/GYN-Gynecologic Emergencies
6940	Head Trauma	9914101	Injury-Head
6945	Hyperglycemia	9914121	Medical-Hyperglycemia
6950	Hypertension	9914123	Medical-Hypertension
6960	Hyperthermia	9914029	Environmental-Heat Stroke/Hyperthermia
6965	Hypoglycemia	9914125	Medical-Hypoglycemia/Diabetic Emergency
6970	Hypotension/Shock (Non-Trauma)	9914127	Medical-Hypotension/Shock (Non-Trauma)
6980	Hypothermia	9914031	Environmental-Hypothermia
6990	IV Access	9914067	General-IV Access
7000	Trauma-Multisystem	9914105	Injury-Multisystem
7010	Newly Born	9914155	OB/GYN-Childbirth/Labor/Delivery
9914075 General-Universal Patient Care/ Initial Patient Contact is also an appropriate v3 replacement.			
7020	Obstetrical Emergencies	9914161	OB/GYN-Pregnancy Related Emergencies
7030	Over Dose/Toxic Ingestion	9914135	General-Overdose/Poisoning/Toxic Ingestion
7040	Pain Control	9914071	General-Pain Control
7130	Post Resuscitation	9914019	Cardiac Arrest-Post Resuscitation Care
7140	Pulmonary Edema	9914137	Medical-Pulmonary Edema/CHF
7150	Pulseless Electrical Activity (PEA)	9914015	Cardiac Arrest-Pulseless Electrical Activity
7160	Respiratory Distress	9914139	Medical-Respiratory Distress/Asthma/COPD/Reactive Airway
7170	Seizure	9914141	Medical-Seizure
7180	Spinal Immobilization	9914073	General-Spinal Immobilization/Clearance
7190	Supraventricular Tachycardia	9914147	Medical-Supraventricular Tachycardia (Including Atrial Fibrillation)
7200	Stroke/TIA	9914145	Medical-Stroke/TIA
7210	Syncope	9914149	Medical-Syncope
7214	Trauma-Arrest	9914087	Injury-Cardiac Arrest
7215	Trauma-Amputation	9914077	Injury-Amputation
7220	Universal Patient Care	9914075	General-Universal Patient Care/ Initial Patient Contact
7230	Ventricular Fibrillation	9914017	Cardiac Arrest-Ventricular Fibrillation/ Pulseless Ventricular Tachycardia
7232	Ventricular Ectopy	9914151	Medical-Ventricular Tachycardia (With Pulse)
Not precise.			
7240	Ventricular Tachycardia	9914151	Medical-Ventricular Tachycardia (With Pulse)
9914017 Cardiac Arrest-Ventricular Fibrillation/ Pulseless Ventricular Tachycardia may also be an appropriate v3 replacement.			
7251	Vomiting	9914131	Medical-Nausea/Vomiting

*V2 Element***D04\_09 Personnel Level Permitted to Use the Protocol**

DemographicStateCertificationLicensureLevels	
Null Values	No
Is Nillable	No
Recurrence	0 : M

*V3 Element***dCustomResults.01 Custom Data Element Result**

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

**Comment**

v2 also includes DescriptiveText, which is a string of length 2 to 100.

**Mapping***V2 Pattern*

6090 EMT-Basic

6100 EMT-Intermediate

6110 EMT-Paramedic

6111 Nurse

9917025 Nurse Practitioner and 9917029 Licensed Practical Nurse (LPN) are also appropriate v3 replacements.

6112 Physician

6120 First Responder

*V3 Replacement*

9917011 EMT-Basic

9917013 EMT-Intermediate

9917015 EMT-Paramedic

9917031 Registered Nurse

9917019 Physician

9917009 First Responder

V2 Element

D04\_10 Billing Status

BillingStatus	
Null Values	No
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

V2 Pattern

0	No
1	Yes

V3 Element

dConfiguration.12 Billing Status

YesNoValues	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

9923001	No
9923003	Yes

V2 Element

D04\_11 Hospitals Served

FacilityName	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

v3 dFacility.01 Type of Facility is set to 1701005 Hospital.

Mapping

V2 Pattern

.

V3 Element

dFacility.02 Facility Name

FacilityName	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D04\_12 Hospital Facility Number

FacilityNumber	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

V3 Element

dFacility.03 Facility Location Code

FacilityCode	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v3 dFacility.01 Type of Facility is set to 1701005 Hospital.

Mapping

V2 Pattern

.

V3 Replacement

.

V2 Element

D04\_13 Other Destinations

FacilityName	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dFacility.02 Facility Name

FacilityName	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.



V2 Element

D04\_14 Destination Facility Number

FacilityNumber	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dFacility.03 Facility Location Code

FacilityCode	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

*V2 Element***D04\_15 Destination Type**

FacilityType	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

*V3 Element***dFacility.01 Type of Facility**

TypeOfFacility	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

**Comment****Mapping***V2 Pattern*

7270 Home

Not supported in v3.

7280 Hospital

7290 Medical Office/Clinic

7300 Morgue

Not supported in v3.

7320 Nursing Home

7330 Other

7340 Other EMS Responder (air)

Not supported in v3.

7350 Other EMS Responder (ground)

Not supported in v3.

7360 Police/Jail

Not supported in v3.

*V3 Replacement*

1701009 Other (Not Listed)

1701005 Hospital

1701003 Clinic

1701009 Other (Not Listed)

1701007 Nursing Home

1701009 Other (Not Listed)

1701009 Other (Not Listed)

1701009 Other (Not Listed)

1701009 Other (Not Listed)

V2 Element

D04\_16 Insurance Companies Used

InsuranceCompanyName	
Null Values	No
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

V2 Pattern

V3 Element

dCustomResults.01 Custom Data Element Result

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

V3 Replacement

V2 Element

D04\_17 EMD Vendor

EMDVendor	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dConfiguration.14 EMD Vendor

EMDVendorType	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : M

V3 Replacement

.

V2 Element

D05\_01 Station Name

StationName	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dLocation.02 EMS Location Name

StationName	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D05\_02 Station Number

StationNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dLocation.03 EMS Location Number

StationNumber	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D05\_03 Station Zone

ZoneNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

V3 Element

dCustomResults.01 Custom Data Element Result

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

V3 Replacement

V2 Element

D05\_04 Station GPS

GPSLocation	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

matches(concat(xs:decimal(@Lat),'',xs:decimal(@Long)),'^(\+|-)?(90(\.[0]{1,6})?|([1-8][0-9][0-9])(\.[0-9]{1,6})?),(\+|-)?(180(\.[0]{1,6})?|(1[0-7][0-9][1-9][0-9][0-9])(\.[0-9]{1,6})?)\$')

V3 Element

dLocation.04 EMS Location GPS

GPSLocation	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

concat(xs:decimal(@Lat),'',xs:decimal(@Long))



V2 Element

D05\_05 Station Address

StreetAddress	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dLocation.06 EMS Location Address

StreetAddress	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

*V2 Element*

## D05\_06 Station City

City	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

*V3 Element*

## dLocation.07 EMS Location City

CityGnisCode	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

## Comment

v2 allows length 2 to 30 and specifies the use of FIPS. v3 allows any Positive Integer and specifies the use of GNIS. To add mappings, add entries to v2v3ValueMappingvCity or load them from files downloaded from the "State Files with Federal Codes" section at [http://geonames.usgs.gov/domestic/download\\_data.htm](http://geonames.usgs.gov/domestic/download_data.htm). If multiple mappings exist for a FIPS code within a state, priority is given to codes with a census class code that starts with "C", then "P".

## Mapping

*V2 Pattern*

51000 City of New York

*V3 Replacement*

2395220 City of New York

V2 Element

D05\_07 Station State

V3 Element

dLocation.08 EMS Location State

State		ANSIStateCode	
Null Values	Yes	Null Values	No
Is Nillable	No	Is Nillable	No
Recurrence	1 : 1	Recurrence	0 : 1

Comment

Maps from FIPS 5 to ANSI INCITS 38. The transition was an oversight change only. There were no changes in the numeric codes. v2 allows length 2 to 3. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[0-9]{2}\$')

V3 Replacement

.  
00

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

V2 Element

D05\_08 Station Zip

Zip	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

V3 Element

dLocation.09 EMS Station or Location ZIP Code

ZIP	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v2 allows any String, unconstrained. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^([0-9]{5})|([0-9]{5})-([0-9]{4})|([0-9]{5})-([0-9]{5})|([A-Z][0-9][A-Z] [0-9][A-Z][0-9])\$')

V3 Replacement

normalize-space(.)

V2 Element

D05\_09 Station Telephone Number

TelephoneNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

dLocation.12 EMS Location Phone Number

PhoneNumber	
Null Values	No
Is Nillable	No
Recurrence	0 : M

Comment

v2 allows any String, unconstrained. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[2-9][0-9][0-9]-[2-9][0-9][0-9][0-9][0-9][0-9]\$')

matches(normalize-space(.),'^[2-9][0-9][0-9][2-9][0-9][0-9][0-9][0-9]\$')

matches(normalize-space(.),'^\([2-9][0-9][0-9]\) [2-9][0-9][0-9]-[0-9][0-9][0-9][0-9]\$')

V3 Replacement

normalize-space(.)

replace(normalize-space(.),'([2-9][0-9][0-9])([2-9][0-9][0-9])([0-9][0-9][0-9][0-9])','\$1-\$2-\$3')

replace(normalize-space(.),'^([2-9][0-9][0-9]) ([2-9][0-9][0-9]-[0-9][0-9][0-9][0-9])','\$1-\$2')

V2 Element

D06\_01 Unit/Vehicle Number

VehicleNumber	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v2 allows length 2 to 100. v3 allows length 1 to 25.

Mapping

V2 Pattern

.

V3 Element

dVehicle.01 Unit/Vehicle Number

VehicleNumber	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

substring(.,1,25)

*V2 Element***D06\_03 Vehicle Type**

VehicleType	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

## Mapping

*V3 Element***dVehicle.04 Vehicle Type**

VehicleType	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

*V2 Pattern*

7370	Ambulance
7380	ATV
7390	Bicycle
7400	Boat
7410	Fire Truck
7420	Fixed Wing
7430	Motorcycle
7440	Other
7450	Private Vehicle
7460	Quick Response Vehicle (Non-Transport Vehicle other than Fire Truck)
7470	Rescue
7480	Rotor Craft

*V3 Replacement*

1404001	Ambulance
1404003	ATV
1404005	Bicycle
1404025	Watercraft
1404007	Fire Apparatus
1404009	Fixed Wing
1404011	Motorcycle
1404013	Other
1404015	Personal Vehicle
1404017	Quick Response Vehicle (Non-Transport Vehicle other than Fire Apparatus)
1404019	Rescue
1404021	Rotor Craft

*V2 Element***D06\_04 State Certification/Licensure Levels**

DemographicStateCertificationLicensureLevels	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

*V3 Element***dVehicle.05 Crew State Certification/Licensure Levels**

StateCertificationLicensureLevels	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

**Comment**

v2 also includes DescriptiveText, which is a string of length 2 to 100.

**Mapping***V2 Pattern**V3 Replacement*

9917011

EMT-Basic

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

6090	EMT-Basic	9917011	EMT-Basic
6100	EMT-Intermediate	9917013	EMT-Intermediate
6110	EMT-Paramedic	9917015	EMT-Paramedic
6111	Nurse	9917031	Registered Nurse
9917025 Nurse Practitioner and 9917029 Licensed Practical Nurse (LPN) are also appropriate v3 replacements.			
6112	Physician	9917019	Physician
6120	First Responder	9917009	First Responder



V2 Element

D06\_05 Number Of Each Personnel Level on the Vehicle Crew

NumberOfPersonnel	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dVehicle.06 Number of Each EMS Personnel Level on Normal 911 Ambulance Response

NumberofPersonnel	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D06\_06 Vehicle Initial Cost

VehicleInitialCost	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dVehicle.09 Vehicle Initial Cost

VehicleInitialCost	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D06\_07 Vehicle Model Year

VehicleYear	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dVehicle.10 Vehicle Model Year

Year	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D06\_08 Year Miles/Hours Accrued

VehicleYear	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dVehicle.11 Year Miles/Kilometers Hours Accrued

Year	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D06\_09 Annual Vehicle Hours

VehicleHours	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dVehicle.12 Annual Vehicle Hours

VehicleHours	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D06\_10 Annual Vehicle Miles

AnnualOdometerReading	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

v3 @DistanceUnits is set to 9929003 Miles.

Mapping

V2 Pattern

.

V3 Element

dVehicle.13 Annual Vehicle Miles/Kilometers

AnnualOdometerReading	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D07\_01 Personnel's Agency ID Number

PersonnelsAgencyIDNumber	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dPersonnel.21 EMS Personnel's Agency ID Number

PersonnelAgencyIDNumber	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D07\_02 State/Licensure ID Number

StateLicensureID	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dPersonnel.23 EMS Personnel's State's Licensure ID Number

StateLicensureID	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.



*V2 Element***D07\_03 Personnel's Employment Status**

EmploymentStatus	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

*V3 Element***dPersonnel.31 EMS Personnel's Employment Status**

EmploymentStatus	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

*V2 Pattern*

7490	Full Time Paid Employee
7500	Full Time Unpaid Employee
Not precise.	
7510	Part Time Paid and Part Time Unpaide Employee
Not precise.	
7520	Part Time Paid Employee
7530	Part Time Unpaid Employee
Not precise.	
7535	No Longer Employed by Service

*V3 Replacement*

1531001	Full Time Paid Employee
1531005	Volunteer
1531003	Part Time Paid Employee
1531003	Part Time Paid Employee
1531005	Volunteer
1531007	Neither an Employee Nor a Volunteer

V2 Element

D07\_04 Employment Status Date

Date	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dPersonnel.32 EMS Personnel's Employment Status Date

DateType	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

*V2 Element***D07\_05 Personnel's Level of Certification/Licensure for Agency**

DemographicStateCertificationLicensureLevels	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

*V3 Element***dPersonnel.38 EMS Personnel's Practice Level**

MemberLevel	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

**Comment**

v2 also includes DescriptiveText, which is a string of length 2 to 100.

**Mapping***V2 Pattern*

6090 EMT-Basic

6100 EMT-Intermediate

6110 EMT-Paramedic

6111 Nurse

9925037 Nurse Practitioner and 9925041 Licensed Practical Nurse (LPN) are also appropriate v3 replacements.

6112 Physician

6120 First Responder

*V3 Replacement*

9925015 EMT-Basic

9925017 EMT-Intermediate

9925019 EMT-Paramedic

9925043 Registered Nurse

9925027 Physician

9925013 First Responder

V2 Element

D07\_06 Date of Personnel's Certification or Licensure for Agency

Date	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dPersonnel.39 Date of Personnel's Certification or Licensure for Agency

DateType	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D08\_01 EMS Personnel's Last Name

DemographicLastName	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dPersonnel.01 EMS Personnel's Last Name

PersonLastName	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D08\_02 EMS Personnel's Middle Name/Initial

MiddleInitialName	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dPersonnel.03 EMS Personnel's Middle Name/Initial

PersonMiddleName	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D08\_03 EMS Personnel's First Name

FirstName	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dPersonnel.02 EMS Personnel's First Name

PersonFirstName	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D08\_04 EMS Personnel's Mailing Address

StreetAddress	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dPersonnel.04 EMS Personnel's Mailing Address

StreetAddress	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.



V2 Element

D08\_05 EMS Personnel's City of Residence

City	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

V3 Element

dPersonnel.05 EMS Personnel's City of Residence

CityGnisCode	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v2 allows length 2 to 30 and specifies the use of FIPS. v3 allows any Positive Integer and specifies the use of GNIS. To add mappings, add entries to v2v3ValueMappingvCity or load them from files downloaded from the "State Files with Federal Codes" section at [http://geonames.usgs.gov/domestic/download\\_data.htm](http://geonames.usgs.gov/domestic/download_data.htm). If multiple mappings exist for a FIPS code within a state, priority is given to codes with a census class code that starts with "C", then "P".

Mapping

V2 Pattern

51000                      City of New York

V3 Replacement

2395220                      City of New York

V2 Element

D08\_06 EMS Personnel's State

State	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

V3 Element

dPersonnel.06 EMS Personnel's State

ANSIStateCode	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Maps from FIPS 5 to ANSI INCITS 38. The transition was an oversight change only. There were no changes in the numeric codes. v2 allows length 2 to 3. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[0-9]{2}\$')

V3 Replacement

.  
00

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

V2 Element

D08\_07 EMS Personnel's Zip Code

DemographicZip	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

V3 Element

dPersonnel.07 EMS Personnel's ZIP Code

ZIP	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v2 allows any String, unconstrained. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^([0-9]{5})|([0-9]{5})-([0-9]{4})|([0-9]{5})-([0-9]{5})|([A-Z][0-9][A-Z] [0-9][A-Z][0-9])\$')

V3 Replacement

normalize-space(.)

V2 Element

D08\_08 EMS Personnel's Work Telephone

TelephoneNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

dPersonnel.09 EMS Personnel's Phone Number

PhoneNumber	
Null Values	No
Is Nillable	No
Recurrence	0 : M

Comment

v2 allows any String, unconstrained. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[2-9][0-9]-[2-9][0-9]-[0-9][0-9][0-9][0-9]\$')

matches(normalize-space(.),'^[2-9][0-9][0-9][2-9][0-9][0-9][0-9][0-9][0-9]\$')

matches(normalize-space(.),'^\([2-9][0-9][0-9]\) [2-9][0-9][0-9]-[0-9][0-9][0-9][0-9]\$')

V3 Replacement

normalize-space(.)

replace(normalize-space(.),'([2-9][0-9][0-9])([2-9][0-9][0-9])([0-9][0-9][0-9][0-9])','\$1-\$2-\$3')

replace(normalize-space(.),'\([2-9][0-9][0-9]\) ([2-9][0-9][0-9]-[0-9][0-9][0-9][0-9])','\$1-\$2')

V2 Element

D08\_09 EMS Personnel's Home Telephone

TelephoneNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

dPersonnel.09 EMS Personnel's Phone Number

PhoneNumber	
Null Values	No
Is Nillable	No
Recurrence	0 : M

Comment

v2 allows any String, unconstrained. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[2-9][0-9]-[2-9][0-9]-[0-9][0-9][0-9][0-9]\$')

matches(normalize-space(.),'^[2-9][0-9][0-9][2-9][0-9][0-9][0-9][0-9]\$')

matches(normalize-space(.),'^\([2-9][0-9]\) [2-9][0-9][0-9]-[0-9][0-9][0-9][0-9]\$')

V3 Replacement

normalize-space(.)

replace(normalize-space(.),'([2-9][0-9])([2-9][0-9])([0-9][0-9][0-9])','\$1-\$2-\$3')

replace(normalize-space(.),'^([2-9][0-9]) ([2-9][0-9][0-9]-[0-9][0-9][0-9])','\$1-\$2')

V2 Element

D08\_10 EMS Personnel's Email Address

EmailAddress	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dPersonnel.10 EMS Personnel's Email Address

EmailAddress	
Null Values	No
Is Nillable	No
Recurrence	0 : M

V3 Replacement

.

V2 Element

D08\_11 EMS Personnel's Date Of Birth

DateOfBirth	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v2 allows 1890-01-01 to 2030-01-01. v3 allows 1900-01-01 to 2050-01-01.

Mapping

V2 Pattern

xs:date(.)>=xs:date('1900-01-01')

V3 Element

dPersonnel.11 EMS Personnel's Date of Birth

DateType	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

xs:date(.)

V2 Element

D08\_12 EMS Personnel's Gender

DemographicGender	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

650	Male
655	Female

V3 Element

dPersonnel.12 EMS Personnel's Gender

Gender	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

9906003	Male
9906001	Female



*V2 Element*

## D08\_13 EMS Personnel's Race

DemographicRace	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

## Mapping

*V2 Pattern*

660	American Indian or Alaska Native
665	Asian
670	Black or African American
675	Native Hawaiian or Other Pacific Islander
680	White
685	Other Race

Not supported in v3.

*V3 Element*

## dPersonnel.13 EMS Personnel's Race

DemographicRace	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : M

*V3 Replacement*

1513001	American Indian or Alaska Native
1513003	Asian
1513005	Black or African American
1513009	Native Hawaiian or Other Pacific Islander
1513011	White

V2 Element

D08\_14 EMS Personnel's Ethnicity

DemographicEthnicity	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

690	Hispanic or Latino
695	Not Hispanic or Latino
Not supported in v3.	

V3 Element

dPersonnel.13 EMS Personnel's Race

DemographicRace	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : M

V3 Replacement

1513007	Hispanic or Latino

*V2 Element***D08\_15 State EMS Certification Licensure Level**

DemographicStateCertificationLicensureLevels	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

*V3 Element***dPersonnel.24 EMS Personnel's State EMS Certification Licensure Level**

MemberLevel	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

**Comment**

v2 also includes DescriptiveText, which is a string of length 2 to 100.

**Mapping***V2 Pattern*

6090 EMT-Basic

6100 EMT-Intermediate

6110 EMT-Paramedic

6111 Nurse

9925037 Nurse Practitioner and 9925041 Licensed Practical Nurse (LPN) are also appropriate v3 replacements.

6112 Physician

6120 First Responder

*V3 Replacement*

9925015 EMT-Basic

9925017 EMT-Intermediate

9925019 EMT-Paramedic

9925043 Registered Nurse

9925027 Physician

9925013 First Responder

V2 Element

D08\_16 National Registry Credentialed

YesNoValues	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

0	No
1	Yes

V3 Element

dCustomResults.01 Custom Data Element Result

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

V3 Replacement

9923001	No
9923003	Yes

V2 Element

D08\_17 State EMS Current Certification Date

Date	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dPersonnel.25 EMS Personnel's State EMS Current Certification Date

DateType	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D08\_18 Initial State Certification Date

Date	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dPersonnel.26 EMS Personnel's Initial State's Licensure Issue Date

DateType	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D08\_19 Total Length of Service

TotalService	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

V3 Element

dPersonnel.36 EMS Personnel's Total Length of Service in Years

TotalService	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v2 allows 1 to 100. v3 allows 0 to 80.

Mapping

V2 Pattern

.<=80	.
otherwise	80

V3 Replacement

V2 Element

D08\_20 Date Length of Service Documented

Date	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dPersonnel.37 EMS Personnel's Date Length of Service Documented

DateType	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.



V2 Element

D09\_01 Device Serial Number

DeviceSerialNumber	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dDevice.01 Medical Device Serial Number

DeviceSerialNumber	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D09\_02 Device Name or ID

DeviceNameOrID	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dDevice.02 Medical Device Name or ID

DeviceNameorID	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D09\_03 Device Manufacturer

DeviceManufacturer	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dDevice.04 Medical Device Manufacturer

DeviceManufacturer	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D09\_04 Model Number

ModelNumber	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dDevice.05 Medical Device Model Number

ModelNumber	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

D09\_05 Device Purchase Date

Date	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

dDevice.06 Medical Device Purchase Date

DateType	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E01\_01 Patient Care Report Number

PatientCareReportNumber	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eRecord.01 Patient Care Report Number

PatientCareReportNumber	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

V3 Replacement

.

V2 Element

E01\_02 Software Creator

SoftwareCreatedBy	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eRecord.02 Software Creator

SoftwareCreator	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

V3 Replacement

.

V2 Element

E01\_03 Software Name

SoftwareName	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eRecord.03 Software Name

SoftwareName	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

V3 Replacement

.



V2 Element

E01\_04 Software Version

SoftwareVersion	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eRecord.04 Software Version

SoftwareVersion	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

V3 Replacement

.

V2 Element

E02\_01 EMS Agency Number

EMSAgencyNumber	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eResponse.01 EMS Agency Number

EMSAgencyNumber	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

V3 Replacement

.

V2 Element

E02\_02 Incident Number

IncidentNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

eResponse.03 Incident Number

EMSIncidentNumber	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

v2 allows length 2 to 15. v3 allows length 3 to 32.

Mapping

V2 Pattern

string-length(.)<3  
otherwise

V3 Replacement

substring(concat('\_\_\_\_',.),string-length(.)+1,3)  
.

V2 Element

E02\_03 EMS Unit (Vehicle) Response Number

EMSUnitResponseNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

v2 allows length 1 to 15. v3 allows length 3 to 32.

Mapping

V2 Pattern

string-length(.)<3  
otherwise

V3 Element

eResponse.04 EMS Response Number

EMSResponseNumber	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

substring(concat('\_\_\_\_',.),string-length(.)+1,3)  
.

*V2 Element***E02\_04 Type of Service Requested**

TypeOfServiceRequested	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

*V3 Element***eResponse.05 Type of Service Requested**

EMSServiceCat	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

*V2 Pattern*

30	911 Response (Scene)
35	Intercept
40	InterFacility Transfer
45	Medical Transport
50	Mutual Aid
55	Standby

*V3 Replacement*

2205001	911 Response (Scene)
2205003	Intercept
2205005	Interfacility Transport
2205007	Medical Transport
2205009	Mutual Aid
2205013	Standby

*V2 Element***E02\_05 Primary Role of the Unit**

PrimaryRollOfTheUnit	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

*V3 Element***eResponse.07 Primary Role of the Unit**

PrimaryRoleOfUnit	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

*V2 Pattern*

.=75 and .././E07/E07\_34=1025

Transport

This mapping is used when E07\_34 CMS Service Level indicates a fixed wing air ambulance response.

.=75 and .././E07/E07\_34=1030

Transport

This mapping is used when E07\_34 CMS Service Level indicates a rotary wing air ambulance response.

60	Non-Transport	2207007	Non-Transport Assistance
65	Rescue	2207009	Non-Transport Rescue
70	Supervisor	2207005	Non-Transport Administrative (e.g., Supervisor)
75	Transport	2207003	Ground Transport

This mapping is used when E07\_34 CMS Service Level does not indicate an air ambulance response.

*V3 Replacement*

2207013

Air Transport-Fixed Wing

2207011

Air Transport-Helicopter

*V2 Element***E02\_06 Type of Dispatch Delay**

TypeOfDispatchDelay	
Null Values	Yes
Is Nillable	No
Recurrence	1 : M

*V3 Element***eResponse.08 Type of Dispatch Delay**

EMSDispatchDelayReason	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

Comment

Mapping

*V2 Pattern*

100	No Units Available
105	None
110	Other

v3 supports additional specific values.

115	Scene Safety (Not Secure for EMS)
-----	-----------------------------------

Not supported in v3.

120	Technical Failure (Computer, Phone etc.)
80	Caller (Uncooperative)
85	High Call Volume
90	Language Barrier
95	Location (Inability to Obtain)

*V3 Replacement*

2208011	No EMS Vehicles (Units) Available
2208013	None/No Delay
2208015	Other

2208015	Other
---------	-------

2208017	Technical Failure (Computer, Phone etc.)
2208001	Caller (Uncooperative)
2208005	High Call Volume
2208007	Language Barrier
2208009	Location (Inability to Obtain)

*V2 Element***E02\_07 Type of Response Delay**

TypeOfResponseDelay	
Null Values	Yes
Is Nillable	No
Recurrence	1 : M

*V3 Element***eResponse.09 Type of Response Delay**

EMSUnitDelayReason	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

Comment

Mapping

*V2 Pattern*

125	Crowd
130	Directions
135	Distance
140	Diversion
145	HazMat
150	None
155	Other

v3 supports additional specific values.

160	Safety
165	Staff Delay
170	Traffic
175	Vehicle Crash
180	Vehicle Failure
185	Weather

*V3 Replacement*

2209001	Crowd
2209003	Directions/Unable to Locate
2209005	Distance
2209007	Diversion (Different Incident)
2209009	HazMat
2209011	None/No Delay
2209013	Other
2209019	Scene Safety (Not Secure for EMS)
2209021	Staff Delay
2209023	Traffic
2209025	Vehicle Crash Involving this Unit
2209027	Vehicle Failure of this Unit
2209029	Weather



*V2 Element***E02\_08 Type of Scene Delay***V3 Element***eResponse.10 Type of Scene Delay**

TypeOfSceneDelay		EMSSceneUnitDelayReason	
Null Values	Yes	Null Values	Yes
Is Nillable	No	Is Nillable	Yes
Recurrence	1 : M	Recurrence	1 : M
Comment			
Mapping			

*V2 Pattern**V3 Replacement*

190	Crowd	2210005	Crowd
195	Directions	2210007	Directions/Unable to Locate
200	Distance	2210009	Distance
205	Diversion	2210019	Other
Not supported in v3.			
210	Extrication greater than 20 min.	2210011	Extrication
215	HazMat	2210013	HazMat
220	Language Barrier	2210015	Language Barrier
225	None	2210017	None/No Delay
230	Other	2210019	Other
v3 supports additional specific values.			
235	Safety	2210023	Safety-Crew/Staging
2210025 Safety-Patient is also an appropriate v3 replacement.			
240	Staff Delay	2210027	Staff Delay
245	Traffic	2210029	Traffic
250	Vehicle Crash	2210033	Vehicle Crash Involving this Unit
255	Vehicle Failure	2210035	Vehicle Failure of this Unit
260	Weather	2210037	Weather

*V2 Element***E02\_09 Type of Transport Delay**

TypeOfTransportDelay	
Null Values	Yes
Is Nillable	No
Recurrence	1 : M

*V3 Element***eResponse.11 Type of Transport Delay**

EMSTransportUnitDelayReason	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

Comment

Mapping

*V2 Pattern*

265	Crowd
270	Directions
275	Distance
280	Diversion
285	HazMat
290	None
295	Other

v3 supports additional specific values.

300	Safety
305	Staff Delay
310	Traffic
315	Vehicle Crash
320	Vehicle Failure
325	Weather

*V3 Replacement*

2211001	Crowd
2211003	Directions/Unable to Locate
2211005	Distance
2211007	Diversion
2211009	HazMat
2211011	None/No Delay
2211013	Other
2211019	Safety
2211021	Staff Delay
2211023	Traffic
2211025	Vehicle Crash Involving this Unit
2211027	Vehicle Failure of this Unit
2211029	Weather

*V2 Element***E02\_10 Type of Turn-Around Delay**

TypeOfTurnAroundDelay	
Null Values	Yes
Is Nillable	No
Recurrence	1 : M

*V3 Element***eResponse.12 Type of Turn-Around Delay**

EMSTurnaroundUnitDelayReason	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

Comment

Mapping

*V2 Pattern*

330	Clean-up
335	Decontamination
340	Documentation
345	ED Overcrowding
350	Equipment Failure
355	Equipment Replenishment
360	None
365	Other
v3 supports additional specific values.	
370	Staff Delay
375	Vehicle Failure

*V3 Replacement*

2212001	Clean-up
2212003	Decontamination
2212007	Documentation
2212009	ED Overcrowding / Transfer of Care
2212011	Equipment Failure
2212013	Equipment/Supply Replenishment
2212015	None/No Delay
2212017	Other
2212023	Staff Delay
2212029	Vehicle Failure of this Unit

V2 Element

E02\_11 EMS Unit/Vehicle Number

EMSUnitNumber	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Element

eResponse.13 EMS Vehicle (Unit) Number

EMSVehicleNumber	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

v2 allows length 2 to 30. v3 allows length 1 to 25.

Mapping

V2 Pattern

.

V3 Replacement

substring(.,25)

—

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

V2 Element

E02\_12 EMS Unit Call Sign (Radio Number)

EMSUnitCallSign	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eResponse.14 EMS Unit Call Sign

EMSUnitCallSign	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

V3 Replacement

.

V2 Element

E02\_13 Vehicle Dispatch Location

VehicleDispatchLocation	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

v2 allows length 1 to 30. v3 allows length 2 to 100.

Mapping

V2 Pattern

string-length(.)<2  
otherwise

V3 Element

eResponse.16 Vehicle Dispatch Location

VehicleDispatchLocation	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

concat('\_',.)  
.

V2 Element

E02\_14 Vehicle Dispatch Zone

ZoneNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

V3 Element

eCustomResults.01 Custom Data Element Result

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

V3 Replacement

V2 Element

E02\_15 Vehicle Dispatch GPS Location

GPSLocation	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

matches(concat(xs:decimal(@Lat),'',xs:decimal(@Long)),'^(\+|-)?(90(\.[0]{1,6})?|([1-8][0-9][0-9])(\.[0-9]{1,6})?),(\+|-)?(180(\.[0]{1,6})?|(1[0-7][0-9][1-9][0-9][0-9])(\.[0-9]{1,6})?)\$')

V3 Element

eResponse.17 Vehicle Dispatch GPS Location

GPSLocation	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

concat(xs:decimal(@Lat),'',xs:decimal(@Long))



V2 Element

E02\_16 Beginning Odometer Reading of Responding Vehicle

OdometerReading	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eResponse.19 Beginning Odometer Reading of Responding Vehicle

EMSMileageOdometer	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E02\_17 On-Scene Odometer Reading of Responding Vehicle

OdometerReading	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

V3 Element

eResponse.20 On-Scene Odometer Reading of Responding Vehicle

EMSMileageOdometer	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

V2 Element

E02\_18 Patient Destination Odometer Reading of Responding Vehicle

OdometerReading	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eResponse.21 Patient Destination Odometer Reading of Responding Vehicle

EMSMileageOdometer	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E02\_19 Ending Odometer Reading of Responding Vehicle

OdometerReading	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eResponse.22 Ending Odometer Reading of Responding Vehicle

EMSMileageOdometer	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

*V2 Element***E02\_20 Response Mode to Scene**

ResponseModeToScene	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

*V3 Element***eResponse.23 Response Mode to Scene**

EMSResponseMode	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

**Comment**

Not precise, but eResponse.23 is mandatory in v3.

**Mapping***V2 Pattern*

380	Initial Lights and Sirens, Downgraded to No Lights or Sirens
Not precise.	
385	Initial No Lights or Sirens, Upgraded to Lights and Sirens
Not precise.	
390	Lights and Sirens
Not precise.	
395	No Lights or Sirens
Not precise.	

*V3 Replacement*

2223003	Emergent Downgraded to Non-Emergent
2223007	Non-Emergent Upgraded to Emergent
2223001	Emergent (Immediate Response)
2223005	Non-Emergent

*V2 Element***E02\_20 Response Mode to Scene**

ResponseModeToScene	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

*V3 Element***eResponse.24 Additional Response Mode Descriptors**

EMSAdditionalResponseMode	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

Comment

Mapping

*V2 Pattern*

380	Initial Lights and Sirens, Downgraded to No Lights or Sirens
385	Initial No Lights or Sirens, Upgraded to Lights and Sirens
390	Lights and Sirens
395	No Lights or Sirens

*V3 Replacement*

2224023	Initial Lights and Sirens, Downgraded to No Lights or Sirens
2224021	Initial No Lights or Sirens, Upgraded to Lights and Sirens
2224015	Lights and Sirens
2224019	No Lights or Sirens

*V2 Element***E03\_01 Complaint Reported by Dispatch**

ComplaintReportedByDispatch	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

*V3 Element***eDispatch.01 Complaint Reported by Dispatch**

ComplaintReportedByDispatch	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

*V2 Pattern**V3 Replacement*

2301051

No Other Appropriate Choice

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

400	Abdominal Pain	2301001	Abdominal Pain/Problems
405	Allergies	2301003	Allergic Reaction/Stings
410	Animal Bite	2301005	Animal Bite
415	Assult	2301007	Assault
420	Back Pain	2301011	Back Pain (Non-Traumatic)
425	Breathing Problem	2301013	Breathing Problem
430	Burns	2301015	Burns/Explosion
435	CO Poisoning/Hazmat	2301017	Carbon Monoxide/Hazmat/Inhalation/CBRN
440	Cardiac Arrest	2301019	Cardiac Arrest/Death
445	Chest Pain	2301021	Chest Pain (Non-Traumatic)
450	Choking	2301023	Choking
455	Convulsions/Seizure	2301025	Convulsions/Seizure
460	Diabetic Problem	2301027	Diabetic Problem
465	Drowning	2301081	Drowning/Diving/SCUBA Accident
470	Electrocution	2301029	Electrocution/Lightning
475	Eye Problem	2301031	Eye Problem/Injury
480	Fall Victim	2301033	Falls
485	Headache	2301037	Headache
490	Heart Problems	2301041	Heart Problems/AICD
495	Heat/Cold Exposure	2301043	Heat/Cold Exposure
500	Hemorrhage/Laceration	2301045	Hemorrhage/Laceration
505	Industrial Accident/Inaccessible Incident/Other Entrapments (non-vehicle)	2301047	Industrial Accident/Inaccessible Incident/Other Entrapments (Non-Vehicle)
510	Ingestion/Poisoning	2301053	Overdose/Poisoning/Ingestion
515	Pregnancy/Childbirth	2301057	Pregnancy/Childbirth/Miscarriage
520	Psychiatric Problem	2301059	Psychiatric Problem/Abnormal Behavior/Suicide Attempt
525	Sick Person	2301061	Sick Person
530	Stab/Gunshot Wound	2301063	Stab/Gunshot Wound/Penetrating Trauma
535	Stroke/CVA	2301067	Stroke/CVA

540	Traffic Accident	2301069	Traffic/Transportation Incident
545	Traumatic Injury	2301073	Traumatic Injury
550	Unconscious/Fainting	2301077	Unconscious/Fainting/Near-Fainting
555	Unknown Problem Man Down	2301079	Unknown Problem/Person Down
560	Transfer/Interfacility/Palliative Care	2301071	Transfer/Interfacility/Palliative Care
565	MCI	2301051	No Other Appropriate Choice

Not supported in v3.



V2 Element

E03\_02 EMD Performed

EMDPerformed	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

0	No
570	Yes, With Pre-Arrival Instructions
575	Yes, Without Pre-Arrival Instructions

V3 Element

eDispatch.02 EMD Performed

EMDPerformed	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

2302001	No
2302003	Yes, With Pre-Arrival Instructions
2302005	Yes, Without Pre-Arrival Instructions

V2 Element

E03\_03 EMD Card Number

EMDCardNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eDispatch.03 EMD Card Number

EMDCardNumber	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

*V2 Element***E03\_03 EMD Card Number***V3 Element***eDispatch.05 Dispatch Priority (Patient Acuity)**

EMDCardNumber		DispatchPriority	
Null Values	Yes	Null Values	No
Is Nillable	No	Is Nillable	No
Recurrence	0 : 1	Recurrence	0 : 1

**Comment**

Implements the v3 recommended mapping for EMD systems utilizing Alpha-Echo and Omega levels for determining dispatch priority.

**Mapping**

<i>V2 Pattern</i>	<i>V3 Replacement</i>	
upper-case(substring(normalize-space(.),string-length(normalize-space(.)),1))='A'	2305005	Lower Acuity
Alpha		
upper-case(substring(normalize-space(.),string-length(normalize-space(.)),1))='B'	2305003	Emergent
Bravo		
upper-case(substring(normalize-space(.),string-length(normalize-space(.)),1))='C'	2305003	Emergent
Charlie		
upper-case(substring(normalize-space(.),string-length(normalize-space(.)),1))='D'	2305001	Critical
Delta		
upper-case(substring(normalize-space(.),string-length(normalize-space(.)),1))='E'	2305001	Critical
Echo		
upper-case(substring(normalize-space(.),string-length(normalize-space(.)),1))='O'	2305007	Non-Acute [e.g. Scheduled Transfer or Standby]
Omega		

V2 Element

E04\_01 Crew Member ID

CrewMemberID	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eCrew.01 Crew Member ID

CrewMemberID	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

*V2 Element***E04\_02 Crew Member Role**

CrewMemberRole	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

*V3 Element***eCrew.03 Crew Member Response Role**

CrewMemberRoles	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : M

Comment
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Mapping
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*V2 Pattern*

580	Driver	Not precise. See notes in v2 and v3 data dictionaries.
585	Primary Patient Caregiver	Not precise. See notes in v2 and v3 data dictionaries.
590	Secondary Patient Caregiver	Not precise. See notes in v2 and v3 data dictionaries.
595	Third Patient Caregiver	Not precise. See notes in v2 and v3 data dictionaries.
600	Other	v3 supports additional specific values.

*V3 Replacement*

2403001	Driver/Pilot-Response
2403011	Primary Patient Caregiver-At Scene
2403007	Other Patient Caregiver-At Scene
2403007	Other Patient Caregiver-At Scene
2403005	Other

*V2 Element***E04\_03 Crew Member Level**

CrewMemberLevel	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

*V3 Element***eCrew.02 Crew Member Level**

MemberLevel	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

**Comment**

v2 also includes DescriptiveText, which is a string of length 2 to 100.

**Mapping***V2 Pattern*

6090	EMT-Basic
6100	EMT-Intermediate
6110	EMT-Paramedic
6111	Nurse
9925037 Nurse Practitioner and 9925041 Licensed Practical Nurse (LPN) are also appropriate v3 replacements.	
6112	Physician
6120	First Responder
635	Student
640	Other Healthcare Professional
645	Other Non-Healthcare Professional

*V3 Replacement*

9925015	EMT-Basic
9925017	EMT-Intermediate
9925019	EMT-Paramedic
9925043	Registered Nurse
9925027	Physician
9925013	First Responder
9925031	Student
9925023	Other Healthcare Professional
9925025	Other Non-Healthcare Professional

*V2 Element***E04\_03 Crew Member Level**

CrewMemberLevel	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

*V3 Element***eMedications.10 Role/Type of Person Administering Medication**

EMSCaregiverLevel	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

**Comment**

Mapping is contingent on finding a match between v2 E18\_09 Medication Crew Member ID and E04\_01 Crew Member ID. v2 also includes DescriptiveText, which is a string of length 2 to 100.

**Mapping***V2 Pattern*

6090	EMT-Basic
6100	EMT-Intermediate
6110	EMT-Paramedic
6111	Nurse
9905035 Nurse Practitioner and 9905039 Licensed Practical Nurse (LPN) are also appropriate v3 replacements.	
6112	Physician
6120	First Responder
635	Student
640	Other Healthcare Professional
645	Other Non-Healthcare Professional

*V3 Replacement*

9905009	EMT-Basic
9905011	EMT-Intermediate
9905013	EMT-Paramedic
9905041	Registered Nurse
9905025	Physician
9905015	First Responder
9905029	Student
9905019	Other Healthcare Professional
9905021	Other Non-Healthcare Professional

*V2 Element***E04\_03 Crew Member Level**

CrewMemberLevel	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

*V3 Element***eProcedures.10 Role/Type of Person Performing the Procedure**

EMSCaregiverLevel	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

**Comment**

Mapping is contingent on finding a match between v2 E18\_09 Procedure Crew Members ID and E04\_01 Crew Member ID. v2 also includes DescriptiveText, which is a string of length 2 to 100.

**Mapping***V2 Pattern**V3 Replacement*

6090	EMT-Basic	9905009	EMT-Basic
6100	EMT-Intermediate	9905011	EMT-Intermediate
6110	EMT-Paramedic	9905013	EMT-Paramedic
6111	Nurse	9905041	Registered Nurse
9905035 Nurse Practitioner and 9905039 Licensed Practical Nurse (LPN) are also appropriate v3 replacements.			
6112	Physician	9905025	Physician
6120	First Responder	9905015	First Responder
635	Student	9905029	Student
640	Other Healthcare Professional	9905019	Other Healthcare Professional
645	Other Non-Healthcare Professional	9905021	Other Non-Healthcare Professional



*V2 Element***E04\_03 Crew Member Level**

CrewMemberLevel	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

*V3 Element***eResponse.15 Level of Care of This Unit**

UnitLevelOfCare	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

**Comment**

Not precise, but eResponse.15 is mandatory in v3. The highest value among E04\_03 is used.

v2 also includes DescriptiveText, which is a string of length 2 to 100.

**Mapping***V2 Pattern*

6090	EMT-Basic
6100	EMT-Intermediate
2215007 BLS-Intermediate is also an appropriate v3 replacement.	
6110	EMT-Paramedic
6111	Nurse
6112	Physician
6120	First Responder

*V3 Replacement*

2215003	BLS-Basic/EMT
2215011	ALS-Intermediate
2215013	ALS-Paramedic
2215017	ALS-Nurse
2215019	ALS-Physician
2215001	BLS-First Responder/EMR

V2 Element

E05\_01 Incident or Onset Date/Time

DateTime	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

V3 Element

eSituation.01 Date/Time of Symptom Onset

DateTimeType	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}:[0-9]{2}.

Mapping

V2 Pattern

.!=""

V3 Replacement

adjust-dateTime-to-timezone(.)

V2 Element

E05\_02 PSAP Call Date/Time

DateTime	
Null Values	No
Is Nillable	Yes
Recurrence	1 : 1

V3 Element

eTimes.01 PSAP Call Date/Time

DateTimeType	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}:[0-9]{2}.

Mapping

V2 Pattern

.!="

V3 Replacement

adjust-dateTime-to-timezone(.)

V2 Element

E05\_03 Dispatch Notified Date/Time

DateTime	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}:[0-9]{2}.

Mapping

V2 Pattern

.!=""

V3 Element

eTimes.02 Dispatch Notified Date/Time

DateTimeType	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

adjust-dateTime-to-timezone(.)

V2 Element

E05\_04 Unit Notified by Dispatch Date/Time

DateTime	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}: [0-9]{2}.

Mapping

V2 Pattern

.!="

V3 Element

eTimes.03 Unit Notified by Dispatch Date/Time

DateTimeType	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

V3 Replacement

adjust-dateTime-to-timezone(.)

V2 Element

E05\_05 Unit En Route Date/Time

DateTime	
Null Values	No
Is Nillable	Yes
Recurrence	1 : 1

V3 Element

eTimes.05 Unit En Route Date/Time

DateTimeType	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}:[0-9]{2}.

Mapping

V2 Pattern

.!=""

V3 Replacement

adjust-dateTime-to-timezone(.)

V2 Element

E05\_06 Unit Arrived on Scene Date/Time

DateTime	
Null Values	No
Is Nillable	Yes
Recurrence	1 : 1

V3 Element

eTimes.06 Unit Arrived on Scene Date/Time

DateTimeType	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}: [0-9]{2}.

Mapping

V2 Pattern

.!=""

V3 Replacement

adjust-dateTime-to-timezone(.)

V2 Element

E05\_07 Arrived at Patient Date/Time

DateTime	
Null Values	No
Is Nillable	Yes
Recurrence	1 : 1

V3 Element

eTimes.07 Arrived at Patient Date/Time

DateTimeType	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}:[0-9]{2}.

Mapping

V2 Pattern

.!="

V3 Replacement

adjust-dateTime-to-timezone(.)



V2 Element

E05\_08 Transfer of Patient Care Date/Time

DateTime	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}: [0-9]{2}.

Mapping

V2 Pattern

.!="

V3 Element

eTimes.08 Transfer of EMS Patient Care Date/Time

DateTimeType	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

adjust-dateTime-to-timezone(.)

V2 Element

E05\_09 Unit Left Scene Date/Time

DateTime	
Null Values	No
Is Nillable	Yes
Recurrence	1 : 1

Comment

v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}:[0-9]{2}.

Mapping

V2 Pattern

.!=""

V3 Element

eTimes.09 Unit Left Scene Date/Time

DateTimeType	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

adjust-dateTime-to-timezone(.)

V2 Element

E05\_10 Patient Arrived at Destination Date/Time

DateTime	
Null Values	No
Is Nillable	Yes
Recurrence	1 : 1

Comment

v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}:[0-9]{2}.

Mapping

V2 Pattern

.!="

V3 Element

eTimes.11 Patient Arrived at Destination Date/Time

DateTimeType	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

adjust-dateTime-to-timezone(.)

V2 Element

E05\_11 Unit Back in Service Date/Time

DateTime	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

V3 Element

eTimes.13 Unit Back in Service Date/Time

DateTimeType	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

Comment

v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}:[0-9]{2}.

Mapping

V2 Pattern

.!=""

V3 Replacement

adjust-dateTime-to-timezone(.)

V2 Element

E05\_12 Unit Cancelled Date/Time

DateTime	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}:[0-9]{2}.

Mapping

V2 Pattern

.!=""

V3 Element

eTimes.14 Unit Canceled Date/Time

DateTimeType	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

adjust-dateTime-to-timezone(.)

V2 Element

E05\_13 Unit Back at Home Location Date/Time

DateTime	
Null Values	No
Is Nillable	Yes
Recurrence	1 : 1

Comment

v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}:[0-9]{2}.

Mapping

V2 Pattern

.!=""

V3 Element

eTimes.15 Unit Back at Home Location Date/Time

DateTimeType	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

adjust-dateTime-to-timezone(.)

V2 Element

E06\_01 Last Name

LastName	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

ePatient.02 Last Name

PersonLastName	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E06\_02 First Name

FirstName	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

ePatient.03 First Name

PersonFirstName	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.



V2 Element

E06\_03 Middle Initial/Name

MiddleInitialName	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

ePatient.04 Middle Initial/Name

PersonMiddleName	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E06\_04 Patient's Home Address

StreetAddress	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

ePatient.05 Patient's Home Address

StreetAddress	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E06\_05 Patient's Home City

City	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

v2 allows length 2 to 30 and specifies the use of FIPS. v3 allows any Positive Integer and specifies the use of GNIS. To add mappings, add entries to v2v3ValueMappingvCity or load them from files downloaded from the "State Files with Federal Codes" section at [http://geonames.usgs.gov/domestic/download\\_data.htm](http://geonames.usgs.gov/domestic/download_data.htm). If multiple mappings exist for a FIPS code within a state, priority is given to codes with a census class code that starts with "C", then "P".

Mapping

V2 Pattern

51000City of New York

V3 Element

ePatient.06 Patient's Home City

CityGnisCode	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

2395220City of New York

V2 Element

E06\_06 Patient's Home County

County	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

ePatient.07 Patient's Home County

ANSICountyCode	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

Maps from FIPS 6 to ANSI INCITS 31. The transition was an oversight change only. There were no changes in the numeric codes. v2 allows length 2 to 5. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[0-9]{5}\$')

V3 Replacement

.

V2 Element

E06\_07 Patient's Home State

State	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

ePatient.08 Patient's Home State

ANSIStateCode	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

Maps from FIPS 5 to ANSI INCITS 38. The transition was an oversight change only. There were no changes in the numeric codes. v2 allows length 2 to 3. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[0-9]{2}\$')

V3 Replacement

.  
00

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

V2 Element

E06\_08 Patient's Home Zip Code

Zip	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

V3 Element

ePatient.09 Patient's Home ZIP Code

ZIP	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

v2 allows any String, unconstrained. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^([0-9]{5})|([0-9]{5})-([0-9]{4})|([0-9]{5})-([0-9]{5})|([A-Z][0-9][A-Z] [0-9][A-Z]([0-9]))\$')

V3 Replacement

normalize-space(.)

*V2 Element***E06\_09 Patient's Home Country***V3 Element***ePatient.10 Patient's Country of Residence**

Country		ANISCountryCode	
Null Values	Yes	Null Values	No
Is Nillable	No	Is Nillable	No
Recurrence	0 : 1	Recurrence	0 : 1
Comment			

Maps from FIPS 10 (now GEC) to ISO 3166. FIPS 10 is now maintained by National Geospatial-intelligence Agency (<http://earth-info.nga.mil/gns/html/gazetteers2.html>) as Geopolitical Entities and Codes (GEC). Data for mapping retrieved from CIA World Factbook, Appendix D (<https://www.cia.gov/library/publications/the-world-factbook/appendix/appendix-d.html>), August 16, 2013. The CIA source was chosen because it incorporates updates issued by NGA, whereas the NGA source only provides the updates as separate files. v2 allows length 2 to 20. v3 requires length 2.

**Mapping***V2 Pattern*

```
string-length(normalize-space())!=2
```

If length !=2, return no v3 replacement.

AA	Aruba	AW	Aruba
AC	Antigua and Barbuda	AG	Antigua and Barbuda
AG	Algeria	DZ	Algeria
AJ	Azerbaijan	AZ	Azerbaijan
AN	Andorra	AD	Andorra
AQ	American Samoa	AS	American Samoa
AS	Australia	AU	Australia
AU	Austria	AT	Austria
AV	Anguilla	AI	Anguilla
AX	Akrotiri	GB	United Kingdom
UK Sovereign Base Area on Cyprus			
AY	Antarctica	AQ	Antarctica
ISO defines as the territory south of 60 degrees south latitude			
BA	Bahrain	BH	Bahrain
BC	Botswana	BW	Botswana
BD	Bermuda	BM	Bermuda
BF	Bahamas, The	BS	Bahamas, The
BG	Bangladesh	BD	Bangladesh
BH	Belize	BZ	Belize
BK	Bosnia and Herzegovina	BA	Bosnia and Herzegovina
BL	Bolivia	BO	Bolivia
BM	Burma	MM	Myanmar
BN	Benin	BJ	Benin
BO	Belarus	BY	Belarus
BP	Solomon Islands	SB	Solomon Islands

BU	Bulgaria	BG	Bulgaria
BX	Brunei	BN	Brunei
BY	Burundi	BI	Burundi
CB	Cambodia	KH	Cambodia
CD	Chad	TD	Chad
CE	Sri Lanka	LK	Sri Lanka
CF	Congo, Republic of the	CG	Congo, Republic of the
CG	Congo, Democratic Republic of the	CD	Congo, Democratic Republic of the
	formerly Zaire		
CH	China	CN	China
	see also Taiwan		
CI	Chile	CL	Chile
CJ	Cayman Islands	KY	Cayman Islands
CK	Cocos (Keeling) Islands	CC	Cocos (Keeling) Islands
CN	Comoros	KM	Comoros
CQ	Northern Mariana Islands	MP	Northern Mariana Islands
CR	Coral Sea Islands	AU	Australia
	ISO includes with Australia		
CS	Costa Rica	CR	Costa Rica
CT	Central African Republic	CF	Central African Republic
CW	Cook Islands	CK	Cook Islands
DA	Denmark	DK	Denmark
DO	Dominica	DM	Dominica
DR	Dominican Republic	DO	Dominican Republic
DX	Dhekelia	GB	United Kingdom
	UK Sovereign Base Area on Cyprus		
EI	Ireland	IE	Ireland
EK	Equatorial Guinea	GQ	Equatorial Guinea
EN	Estonia	EE	Estonia
ES	El Salvador	SV	El Salvador
EZ	Czech Republic	CZ	Czech Republic
FG	French Guiana	GF	French Guiana
FP	French Polynesia	PF	French Polynesia
FS	French Southern and Antarctic Lands	TF	French Southern and Antarctic Lands
GA	Gambia, The	GM	Gambia, The
GB	Gabon	GA	Gabon
GG	Georgia	GE	Georgia
GJ	Grenada	GD	Grenada
GK	Guernsey	GG	Guernsey
GM	Germany	DE	Germany
GQ	Guam	GU	Guam
GV	Guinea	GN	Guinea
GZ	Gaza Strip	PS	Occupied Palestinian Territory
HA	Haiti	HT	Haiti
HO	Honduras	HN	Honduras
IC	Iceland	IS	Iceland



IS	Israel	IL	Israel
IV	Cote d'Ivoire	CI	Cote d'Ivoire
IZ	Iraq	IQ	Iraq
JA	Japan	JP	Japan
JN	Jan Mayen	SJ	Svalbard
ISO includes with Svalbard			
KN	Korea, North	KP	Korea, North
KR	Kiribati	KI	Kiribati
KS	Korea, South	KR	Korea, South
KT	Christmas Island	CX	Christmas Island
KU	Kuwait	KW	Kuwait
KV	Kosovo	RS	Serbia
Autonomous province of Serbia			
LE	Lebanon	LB	Lebanon
LG	Latvia	LV	Latvia
LH	Lithuania	LT	Lithuania
LI	Liberia	LR	Liberia
LO	Slovakia	SK	Slovakia
LS	Liechtenstein	LI	Liechtenstein
LT	Lesotho	LS	Lesotho
MA	Madagascar	MG	Madagascar
MB	Martinique	MQ	Martinique
MC	Macau	MO	Macau
MF	Mayotte	YT	Mayotte
MG	Mongolia	MN	Mongolia
MH	Montserrat	MS	Montserrat
MI	Malawi	MW	Malawi
MJ	Montenegro	ME	Montenegro
MN	Monaco	MC	Monaco
MO	Morocco	MA	Morocco
MP	Mauritius	MU	Mauritius
MQ	Midway Islands	UM	United States Minor Outlying Islands
ISO includes with the US Minor Outlying Islands			
MU	Oman	OM	Oman
NE	Niue	NU	Niue
NG	Niger	NE	Niger
NH	Vanuatu	VU	Vanuatu
NI	Nigeria	NG	Nigeria
NN	Sint Maarten	SX	Sint Maarten
NS	Suriname	SR	Suriname
NT	Netherlands Antilles	AN	Netherlands Antilles
disestablished in October 2010 this entity no longer exists; ISO deleted the codes in December 2010			
NU	Nicaragua	NI	Nicaragua
OD	South Sudan	SS	South Sudan
PA	Paraguay	PY	Paraguay
PC	Pitcairn Islands	PN	Pitcairn Islands

PM	Panama	PA	Panama
PO	Portugal	PT	Portugal
PP	Papua New Guinea	PG	Papua New Guinea
PS	Palau	PW	Palau
PU	Guinea-Bissau	GW	Guinea-Bissau
RI	Serbia	RS	Serbia
RM	Marshall Islands	MH	Marshall Islands
RN	Saint Martin	MF	Saint Martin
RP	Philippines	PH	Philippines
RQ	Puerto Rico	PR	Puerto Rico
RS	Russia	RU	Russia
SB	Saint Pierre and Miquelon	PM	Saint Pierre and Miquelon
SC	Saint Kitts and Nevis	KN	Saint Kitts and Nevis
SE	Seychelles	SC	Seychelles
SF	South Africa	ZA	South Africa
SG	Senegal	SN	Senegal
SN	Singapore	SG	Singapore
SP	Spain	ES	Spain
ST	Saint Lucia	LC	Saint Lucia
SU	Sudan	SD	Sudan
SV	Svalbard	SJ	Svalbard
SW	Sweden	SE	Sweden
SX	South Georgia and the Islands	GS	South Georgia and the Islands
SZ	Switzerland	CH	Switzerland
TB	Saint Barthelemy	BL	Saint Barthelemy
TD	Trinidad and Tobago	TT	Trinidad and Tobago
TI	Tajikistan	TJ	Tajikistan
TK	Turks and Caicos Islands	TC	Turks and Caicos Islands
TL	Tokelau	TK	Tokelau
TN	Tonga	TO	Tonga
TO	Togo	TG	Togo
TP	Sao Tome and Principe	ST	Sao Tome and Principe
TS	Tunisia	TN	Tunisia
TT	Timor-Leste	TL	Timor-Leste
TU	Turkey	TR	Turkey
TX	Turkmenistan	TM	Turkmenistan
UC	Curacao	CW	Curacao
UK	United Kingdom	GB	United Kingdom
UP	Ukraine	UA	Ukraine
UV	Burkina Faso	BF	Burkina Faso
VI	British Virgin Islands	VG	British Virgin Islands
VM	Vietnam	VN	Vietnam
VQ	Virgin Islands	VI	Virgin Islands
VT	Holy See (Vatican City)	VA	Holy See (Vatican City)
WA	Namibia	NA	Namibia

otherwise

If the v2 value is not found in the lookup list, the v2 value is used unaltered.

V2 Element

E06\_10 Social Security Number

SocialSecurityNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

ePatient.12 Social Security Number

SocialSecurityNumber	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v2 allows any String, unconstrained. v3 specifies a pattern.

Mapping

V2 Pattern

matches(replace(.,'\D',''), '^([0-9]{9})\$')

V3 Replacement

replace(.,'\D','')

V2 Element

E06\_11 Gender

Gender	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

650	Male
655	Female

V3 Element

ePatient.13 Gender

Gender	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

9906003	Male
9906001	Female

*V2 Element***E06\_12 Race**

Race	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

*V3 Element***ePatient.14 Race**

Race	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

*V2 Pattern*

660	American Indian or Alaska Native
665	Asian
670	Black or African American
675	Native Hawaiian or Other Pacific Islander
680	White
685	Other Race

Not supported in v3.

*V3 Replacement*

2514001	American Indian or Alaska Native
2514003	Asian
2514005	Black or African American
2514009	Native Hawaiian or Other Pacific Islander
2514011	White

V2 Element

E06\_13 Ethnicity

Ethnicity	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

690	Hispanic or Latino
695	Not Hispanic or Latino

Not supported in v3.

V3 Element

ePatient.14 Race

Race	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

V3 Replacement

2514007	Hispanic or Latino
---------	--------------------

V2 Element

E06\_14 Age

Age	
Null Values	No
Is Nillable	Yes
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

ePatient.15 Age

Age	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

.



*V2 Element*

## E06\_15 Age Units

AgeUnits	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

*V3 Element*

## ePatient.16 Age Units

AgeUnits	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

*V2 Pattern*

700	Hours
705	Days
710	Months
715	Years

*V3 Replacement*

2516003	Hours
2516001	Days
2516007	Months
2516009	Years

V2 Element

E06\_16 Date of Birth

DateOfBirth	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

ePatient.17 Date of Birth

DateOfBirth	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E06\_17 Primary or Home Telephone Number

TelephoneNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

ePatient.18 Patient's Phone Number

PhoneNumber	
Null Values	No
Is Nillable	No
Recurrence	0 : M

Comment

v2 allows any String, unconstrained. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[2-9][0-9]-[2-9][0-9]-[0-9][0-9][0-9][0-9]\$')

matches(normalize-space(.),'^[2-9][0-9][0-9][2-9][0-9][0-9][0-9][0-9][0-9]\$')

matches(normalize-space(.),'^\([2-9][0-9][0-9]\) [2-9][0-9][0-9]-[0-9][0-9][0-9][0-9]\$')

V3 Replacement

normalize-space(.)

replace(normalize-space(.),'([2-9][0-9])([2-9][0-9])([0-9][0-9][0-9])','\$1-\$2-\$3')

replace(normalize-space(.),'^\([2-9][0-9][0-9]\) ([2-9][0-9][0-9]-[0-9][0-9][0-9])','\$1-\$2')

V2 Element

E06\_18 State Issuing Driver's License

State	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

ePatient.20 State Issuing Driver's License

ANSIStateCode	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Maps from FIPS 5 to ANSI INCITS 38. The transition was an oversight change only. There were no changes in the numeric codes. v2 allows length 2 to 3. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[0-9]{2}\$')

V3 Replacement

.  
00

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

V2 Element

E06\_19 Driver's License Number

DriversLicenseNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

ePatient.21 Driver's License Number

DriversLicenseNumber	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

*V2 Element***E07\_01 Primary Method of Payment**

PrimaryMethodOfPayment	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment
---------

Mapping
---------

*V2 Pattern*

720	Insurance
725	Medicaid
730	Medicare
735	Not Billed (for any reason)
740	Other Government
745	Self Pay
750	Workers Compensation

*V3 Element***ePayment.01 Primary Method of Payment**

PrimaryMethodOfPayment	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

*V3 Replacement*

2601001	Insurance
2601003	Medicaid
2601005	Medicare
2601007	Not Billed (for any reason)
2601009	Other Government
2601011	Self Pay
2601013	Workers Compensation

V2 Element

E07\_02 Certificate of Medical Necessity

YesNoValues	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

0	No
1	Yes

V3 Element

ePayment.02 Physician Certification Statement

YesNoUnkValues	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

9922001	No
9922005	Yes

V2 Element

E07\_03 Insurance Company ID/Name

InsuranceCompanyID	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

ePayment.09 Insurance Company ID

InsuranceCompanyID	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.



V2 Element

E07\_04 Insurance Company Billing Priority

InsuranceCompanyBillingPriority	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

755	Primary
760	Secondary
765	Other

v3 supports additional specific values.

V3 Element

ePayment.11 Insurance Company Billing Priority

InsuranceCompanyBillingPriority	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

2611003	Primary
2611005	Secondary
2611001	Other

V2 Element

E07\_05 Insurance Company Address

StreetAddress	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

ePayment.12 Insurance Company Address

StreetAddress	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E07\_06 Insurance Company City

City	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

v2 specifies the use of FIPS. v3 specifies the use of text. To add mappings, add entries to v2v3ValueMappingvCity or load them from files downloaded from the "State Files with Federal Codes" section at [http://geonames.usgs.gov/domestic/download\\_data.htm](http://geonames.usgs.gov/domestic/download_data.htm). If multiple mappings exist for a FIPS code within a state, priority is given to codes with a census class code that starts with "C", then "P".

Mapping

V2 Pattern

V3 Element

ePayment.13 Insurance Company City

CityGnisCodePayment	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

V2 Element

E07\_07 Insurance Company State

State	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

ePayment.14 Insurance Company State

ANSIStateCode	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Maps from FIPS 5 to ANSI INCITS 38. The transition was an oversight change only. There were no changes in the numeric codes. v2 allows length 2 to 3. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[0-9]{2}\$')

V3 Replacement

.  
00

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

V2 Element

E07\_08 Insurance Company Zip Code

Zip	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

ePayment.15 Insurance Company ZIP Code

ZIP	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v2 allows any String, unconstrained. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^([0-9]{5})|([0-9]{5})-([0-9]{4})|([0-9]{5})-([0-9]{5})|([A-Z][0-9][A-Z] [0-9][A-Z][0-9])\$')

V3 Replacement

normalize-space(.)

V2 Element

E07\_09 Insurance Group ID/Name

InsuranceGroupIDName	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

ePayment.17 Insurance Group ID/Name

InsuranceGroupID	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v2 defines as the ID or name. v3 defines as the ID. V3 also has ePayment.58 Insurance Group Name.

Mapping

V2 Pattern

V3 Replacement

.

.

V2 Element

E07\_10 Insurance Policy ID Number

InsurancePolicyIDNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

ePayment.18 Insurance Policy ID Number

InsurancePolicyIDNumber	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E07\_11 Last Name of the Insured

LastName	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

ePayment.19 Last Name of the Insured

PersonLastName	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.



V2 Element

E07\_12 First Name of the Insured

FirstName	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

ePayment.20 First Name of the Insured

PersonFirstName	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E07\_13 Middle Initial/Name of the Insured

MiddleInitialName	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

V3 Element

ePayment.21 Middle Initial/Name of the Insured

PersonMiddleName	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

V2 Element

E07\_14 Relationship to the Insured

RelationshipToInsured	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

770	Self
775	Spouse
780	Son/Daughter
785	Other

V3 Element

ePayment.22 Relationship to the Insured

RelationshipToInsured	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

2622001	Self
2622003	Spouse
2622005	Child/Dependent
2622019	Other Relationship

v3 supports additional specific values.

V2 Element

E07\_15 Work-Related

YesNoValues	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

0	No
1	Yes

V3 Element

eSituation.14 Work-Related Illness/Injury

YesNoUnkValues	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

9922001	No
9922005	Yes

*V2 Element***E07\_16 Patient's Occupational Industry**

PatientsOccupationalIndustry	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

*V3 Element***eSituation.15 Patient's Occupational Industry**

OccupationIndustry	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

**Comment**

In cases where a single v2 value could map to multiple v3 values, the v3 value with the greatest number of workers was chosen (see [http://factfinder2.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ECN\\_2007\\_US\\_00A1&prodType=table](http://factfinder2.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ECN_2007_US_00A1&prodType=table)).

**Mapping***V2 Pattern**V3 Replacement*

790	Construction	2815009	Construction
795	Finance, Insurance, and Real Estate	2815013	Finance and Insurance
2815031 Real Estate and Rental and Leasing is also an appropriate v3 replacement.			
800	Government	2815029	Public Administration
805	Manufacturing	2815021	Manufacturing
810	Mining	2815023	Mining, Quarrying, and Oil and Gas Extraction
815	Retail Trade	2815033	Retail Trade
820	Services	2815025	Other Services (except Public Administration)
v3 supports additional specific values.			
825	Transportation and Public Utilities	2815035	Transportation and Warehousing
2815037 Utilities is also an appropriate v3 replacement.			
830	Wholesale Trade	2815039	Wholesale Trade

*V2 Element***E07\_17 Patient's Occupation**

PatientsOccupation	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

## Mapping

*V2 Pattern*

835	Management Occupations
840	Business and Financial Operations Occupations
845	Computer and Mathematical Occupations
850	Architecture and Engineering Occupations
855	Life, Physical, and Social Science Occupations
860	Community and Social Services Occupations
865	Legal Occupations
870	Education, Training, and Library Occupations
875	Arts, Design, Entertainment, Sports, and Media Occupations
880	Healthcare Practitioners and Technical Occupations
885	Healthcare Support Occupations
890	Protective Service Occupations
895	Food Preparation and Serving Related Occupations
900	Building and Grounds Cleaning and Maintenance Occupations
905	Personal Care and Service Occupations
910	Sales and Related Occupations
915	Office and Administrative Support Occupations
920	Farming, Fishing and Forestry Occupations
925	Construction and Extraction Occupations
930	Installation, Maintenance, and Repair Occupations
935	Production Occupations
940	Transportation and Material Moving Occupations
945	Military Specific Occupations

*V3 Element***eSituation.16 Patient's Occupation**

PatientsOccupation	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

*V3 Replacement*

2816031	Management Occupations
2816007	Business and Financial Operations Occupations
2816011	Computer and Mathematical Occupations
2816001	Architecture and Engineering Occupations
2816029	Life, Physical, and Social Science Occupations
2816009	Community and Social Services Occupations
2816027	Legal Occupations
2816015	Education, Training, and Library Occupations
2816003	Arts, Design, Entertainment, Sports, and Media Occupations
2816021	Healthcare Practitioners and Technical Occupations
2816023	Healthcare Support Occupations
2816041	Protective Service Occupations
2816019	Food Preparation and Serving Related Occupations
2816005	Building and Grounds Cleaning and Maintenance Occupations
2816037	Personal Care and Service Occupations
2816043	Sales and Related Occupations
2816035	Office and Administrative Support Occupations
2816017	Farming, Fishing and Forestry Occupations
2816013	Construction and Extraction Occupations
2816025	Installation, Maintenance, and Repair Occupations
2816039	Production Occupations
2816045	Transportation and Material Moving Occupations
2816033	Military Specific Occupations

V2 Element

E07\_18 Closest Relative/Guardian Last Name

LastName	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

V3 Element

ePayment.23 Closest Relative/Guardian Last Name

PersonLastName	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E07\_19 First Name of the Closest Relative/  
Guardian

FirstName	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

ePayment.24 Closest Relative/ Guardian First  
Name

PersonFirstName	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.



V2 Element

E07\_20 Middle Initial/Name of the Closest Relative/ Guardian

MiddleInitialName	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

ePayment.25 Closest Relative/ Guardian Middle Initial/Name

PersonMiddleName	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E07\_21 Closest Relative/ Guardian Street Address

StreetAddress	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

ePayment.26 Closest Relative/ Guardian Street Address

StreetAddress	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E07\_22 Closest Relative/ Guardian City

City	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

v2 specifies the use of FIPS. v3 specifies the use of text. To add mappings, add entries to v2v3ValueMappingvCity or load them from files downloaded from the "State Files with Federal Codes" section at [http://geonames.usgs.gov/domestic/download\\_data.htm](http://geonames.usgs.gov/domestic/download_data.htm). If multiple mappings exist for a FIPS code within a state, priority is given to codes with a census class code that starts with "C", then "P".

Mapping

V2 Pattern

V3 Element

ePayment.27 Closest Relative/ Guardian City

CityGnisCodePayment	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

V2 Element

E07\_23 Closest Relative/ Guardian State

State	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

ePayment.28 Closest Relative/ Guardian State

ANSIStateCode	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Maps from FIPS 5 to ANSI INCITS 38. The transition was an oversight change only. There were no changes in the numeric codes. v2 allows length 2 to 3. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[0-9]{2}\$')

V3 Replacement

.  
00

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

V2 Element

E07\_24 Closest Relative/ Guardian Zip Code

Zip	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

ePayment.29 Closest Relative/ Guardian ZIP Code

ZIP	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v2 allows any String, unconstrained. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^([0-9]{5})|([0-9]{5})-([0-9]{4})|([0-9]{5})-([0-9]{5})|([A-Z][0-9][A-Z] [0-9][A-Z][0-9])\$')

V3 Replacement

normalize-space(.)

V2 Element

E07\_25 Closest Relative/ Guardian Phone Number

TelephoneNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

ePayment.31 Closest Relative/ Guardian Phone Number

PhoneNumber	
Null Values	No
Is Nillable	No
Recurrence	0 : M

Comment

v2 allows any String, unconstrained. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[2-9][0-9]-[2-9][0-9]-[0-9][0-9][0-9][0-9]\$')

matches(normalize-space(.),'^[2-9][0-9][0-9][2-9][0-9][0-9][0-9][0-9][0-9]\$')

matches(normalize-space(.),'^\([2-9][0-9][0-9]\) [2-9][0-9][0-9]-[0-9][0-9][0-9][0-9]\$')

V3 Replacement

normalize-space(.)

replace(normalize-space(.),'([2-9][0-9])([2-9][0-9])([0-9][0-9][0-9])','\$1-\$2-\$3')

replace(normalize-space(.),'^\([2-9][0-9][0-9]\) ([2-9][0-9][0-9]-[0-9][0-9][0-9])','\$1-\$2')

*V2 Element***E07\_26 Closest Relative/ Guardian Relationship**

ClosestRelativeGuardianRelationship	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

*V3 Element***ePayment.32 Closest Relative/ Guardian Relationship**

ClosestRelativeGuardianRelationship	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment
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Mapping
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*V2 Pattern*

950	Appointed Guardian
955	Father
960	Mother
965	Other
2632009 Other (Non-Relative) is also an appropriate v3 replacement. v3 supports additional specific values.	
970	Son/Daughter
975	Spouse

*V3 Replacement*

2632001	Appointed Guardian
2632005	Father
2632007	Mother
2632011	Other (Relative)
2632003	Child/Dependent
2632015	Spouse

V2 Element

E07\_27 Patient's Employer

Name	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

ePayment.33 Patient's Employer

EmployerName	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.



V2 Element

E07\_28 Patient's Employer's Address

StreetAddress	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

ePayment.34 Patient's Employer's Address

StreetAddress	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E07\_29 Patient's Employer's City

City	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

v2 specifies the use of FIPS. v3 specifies the use of text. To add mappings, add entries to v2v3ValueMappingvCity or load them from files downloaded from the "State Files with Federal Codes" section at [http://geonames.usgs.gov/domestic/download\\_data.htm](http://geonames.usgs.gov/domestic/download_data.htm). If multiple mappings exist for a FIPS code within a state, priority is given to codes with a census class code that starts with "C", then "P".

Mapping

V2 Pattern

V3 Element

ePayment.35 Patient's Employer's City

CityGnisCodePayment	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

V2 Element

E07\_30 Patient's Employer's State

State	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

ePayment.36 Patient's Employer's State

ANSIStateCode	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Maps from FIPS 5 to ANSI INCITS 38. The transition was an oversight change only. There were no changes in the numeric codes. v2 allows length 2 to 3. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[0-9]{2}\$')

V3 Replacement

.  
00

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

V2 Element

E07\_31 Patient's Employer's Zip Code

Zip	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

ePayment.37 Patient's Employer's ZIP Code

ZIP	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v2 allows any String, unconstrained. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^([0-9]{5})|([0-9]{5})-([0-9]{4})|([0-9]{5})-([0-9]{5})|([A-Z][0-9][A-Z] [0-9][A-Z]([0-9]))\$')

V3 Replacement

normalize-space(.)

V2 Element

E07\_32 Patient's Work Telephone Number

TelephoneNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

ePayment.39 Patient's Employer's Primary Phone Number

PhoneNumber	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v2 allows any String, unconstrained. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[2-9][0-9]-[2-9][0-9]-[0-9][0-9][0-9][0-9]\$')

matches(normalize-space(.),'^[2-9][0-9][0-9][2-9][0-9][0-9][0-9][0-9][0-9]\$')

matches(normalize-space(.),'^\([2-9][0-9][0-9]\) [2-9][0-9][0-9]-[0-9][0-9][0-9][0-9]\$')

V3 Replacement

normalize-space(.)

replace(normalize-space(.),'([2-9][0-9][0-9])([2-9][0-9][0-9])([0-9][0-9][0-9][0-9])','\$1-\$2-\$3')

replace(normalize-space(.),'\([2-9][0-9][0-9]\) ([2-9][0-9][0-9]-[0-9][0-9][0-9][0-9])','\$1-\$2')

V2 Element

E07\_33 Response Urgency

ResponseUrgency	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

980	Immediate
985	Non-Immediate

V3 Element

ePayment.40 Response Urgency

ResponseUrgency	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

2640001	Immediate
2640003	Non-Immediate

*V2 Element***E07\_34 CMS Service Level**

CMSServiceLevel	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

*V3 Element***ePayment.50 CMS Service Level**

CMSServiceLevel	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

*V2 Pattern*

1000	ALS, Level 1
1005	ALS, Level 1 Emergency
1010	ALS, Level 2
1015	Paramedic Intercept
1020	Specialty Care Transport
1025	Fixed Wing (Airplane)
1030	Rotary Wing (Helicopter)
990	BLS
995	BLS, Emergency

*V3 Replacement*

2650001	ALS, Level 1
2650003	ALS, Level 1 Emergency
2650005	ALS, Level 2
2650013	Paramedic Intercept
2650015	Specialty Care Transport
2650011	Fixed Wing (Airplane)
2650017	Rotary Wing (Helicopter)
2650007	BLS
2650009	BLS, Emergency

*V2 Element***E07\_35 Condition Code Number**

ConditionCodeNumber	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

*V3 Element***ePayment.51 EMS Condition Code**

icd10Code	
Null Values	No
Is Nillable	No
Recurrence	0 : M

**Comment**

Some ICD-9 code references are incorrect in v2. See <http://www.cms.gov/Regulations-and-Guidance/Guidance/Manuals/downloads/clm104c15.pdf>, pg 51-63, for correct codes. In both v2 and CMS, the labels do not match the standard labels for the ICD-9 codes on which they are based. This mapping is done based on generally available ICD-9 to ICD-10 code mapping resources and does not attempt to find the best matching ICD-10 codes for the CMS or v2 labels.

**Mapping***V2 Pattern*

8001 Severe Abdominal Pain (ALS-789.00)

v2 CMS/ICD-9 code should be ALS-535.50.

8002 Abdominal Pain (ALS-789.00)

v2 CMS/ICD-9 code should be BLS-789.00.

8003 Abnormal Cardiac Rhythm/Cardiac Dysrhythmia (ALS-427.9)

8004 Abnormal Skin Signs (ALS-780.8)

8005 Abnormal Vital Signs (ALS-796.4)

8006 Allergic Reaction (ALS-995.0)

ICD-9 995.0 maps to ICD-10 T78.2XXA (initial encounter), which is a billable code but is not allowed in the v3 pattern. T78.2 is a non-billable code.

8007 Allergic Reaction (BLS-692.9)

8008 Blood Glucose (ALS-790.21)

8009 Respiratory Arrest (ALS-799.1)

8010 Difficulty Breathing (ALS-786.05)

8011 Cardiac Arrest\_Resuscitation in Progress (ALS-427.5)

8012 Chest Pain (Non-Traumatic) (ALS-786.50)

8013 Choking Episode (ALS-784.9)

v2 CMS/ICD-9 code should be ALS-784.99.

8014 Cold Exposure (ALS-991.6)

ICD-9 991.6 maps to ICD-10 T68.XXXA (initial encounter), which is a billable code but is not allowed in the v3 pattern. T68 is a non-billable code.

8015 Cold Exposure (BLS-991.6)

v2 CMS/ICD-9 code should be BLS-991.9. ICD-9 991.9 maps to ICD-10 T69.9XXA (initial encounter), which is a billable code but is not allowed in the v3 pattern. T69.9 is a non-billable code.

8016 Altered Level of Consciousness (non-traumatic) (ALS-780.01)

v2 CMS/ICD-9 code should be ALS-780.97.

8017 Convulsions/Seizures (ALS-780.39)

8018 Eye Symptoms (non-traumatic) (BLS-379.90)

8019 Non Traumatic Headache (ALS-437.9)

*V3 Replacement*

K29.90 Gastroduodenitis, unspecified, without bleeding

R10.9 Unspecified abdominal pain

I49.9 Cardiac arrhythmia, unspecified

R61 Generalized hyperhidrosis

R68.89 Other general symptoms and signs

T78.2 Anaphylactic shock, unspecified

L25.9 Unspecified contact dermatitis, unspecified cause

R73.01 Impaired fasting glucose

R09.2 Respiratory arrest

R06.02 Shortness of breath

I46.9 Cardiac arrest, cause unspecified

R07.9 Chest pain, unspecified

R06.89 Other abnormalities of breathing

T68 Hypothermia

T69.9 Effect of reduced temperature, unspecified, initial encounter

R41.82 Altered mental status, unspecified

R56.9 Unspecified convulsions

H57.9 Unspecified disorder of eye and adnexa

I67.9 Cerebrovascular disease, unspecified



8020	Cardiac Symptoms other than Chest Pain (palpitations) (ALS-785.1)	R00.2	Palpitations
8021	Cardiac Symptoms other than Chest Pain (atypical pain) (ALS-536.2)	R07.1	Chest pain on breathing
Mapping is based on CMS ICD-9 Alternative Specific Code 786.52 Painful respiration.			
8022	Heat Exposure (ALS-992.2)	T67.5	Heat exhaustion, unspecified
v2 CMS/ICD-9 code should be ALS-992.5. ICD-9 992.5 maps to ICD-10 T67.5XXA (initial encounter), which is a billable code but is not allowed in the v3 pattern. T67.5 is a non-billable code.			
8023	Heat Exposure (BLS-992.2)	T67.2	Heat cramp
ICD-9 992.2 maps to ICD-10 T67.2XXA (initial encounter), which is a billable code but is not allowed in the v3 pattern. T67.2 is a non-billable code.			
8024	Hemorrhage (ALS-459.0)	R58	Hemorrhage, not elsewhere classified
8025	Infectious Diseases requiring Isolation/Public Health Risk (BLS-038.9)	A41.9	Sepsis, unspecified organism
8026	Hazmat Exposure (ALS-987.9)	T59.94	Toxic effect of unspecified gases, fumes and vapors, undetermined
ICD-9 987.9 maps to ICD-10 T59.94XA (initial encounter), which is a billable code but is not allowed in the v3 pattern. T59.94 is a non-billable code.			
8027	Medical Device Failure (ALS-996.0)	Y82.9	Unspecified medical devices associated with adverse incidents
v2 CMS/ICD-9 code should be BLS-996.00. ICD-9 996.00 maps to ICD-10 T82.599A (initial encounter), which is a billable code but is not allowed in the v3 pattern. T82.599 is a non-billable code. However, Y82.9 was chosen as more appropriate for EMS.			
8028	Medical Device Failure (BLS-996.3)	T83.498	Other mechanical complication of other prosthetic devices, implants and grafts of genital tract
v2 CMS/ICD-9 code should be BLS-996.30. ICD-9 996.30 maps to ICD-10 T93.498A (initial encounter), which is a billable code but is not allowed in the v3 pattern. T83.498 is a non-billable code.			
8029	Neurologic Distress (ALS-436.0)	I67.89	Other cerebrovascular disease
v2 CMS/ICD-9 code should be ALS-436.			
8030	Pain (Severe) (ALS-780.99)	R52	Pain, unspecified
v2 CMS/ICD-9 code should be ALS-780.96.			
8031	Back Pain (non-traumatic possible cardiac or vascular) (ALS-724.5)	M54.9	Dorsalgia, unspecified
8032	Back Pain (non-traumatic with neurologic symptoms) (ALS-724.9)	M53.9	Dorsopathy, unspecified
8033	Posions (all routes) (ALS-977.9)	T50.904	Poisoning by unspecified drugs, medicaments and biological substances, undetermined
ICD-9 977.9 maps to ICD-10 T50.904A (initial encounter), which is a billable code but is not allowed in the v3 pattern. T50.904 is a non-billable code.			
8034	Alcohol Intoxication or Drug Overdose (BLS-305.0)	F10.229	Alcohol dependence with intoxication, unspecified
ICD-9 305.0 is a non-billable code. Mapping is based on CMS ICD-9 Alternative Specific Code 303.00 Acute alcoholic intoxication in alcoholism, unspecified.			
8035	Severe Alcohol Intoxication (ALS-977.3)	T50.991	Poisoning by other drugs, medicaments and biological substances, accidental (unintentional)
ICD-9 977.3 maps to ICD-10 T50.991A (initial encounter), which is a billable code but is not allowed in the v3 pattern. T50.991 is a non-billable code.			
8036	Post-Operative Procedure COmplications (BLS-998.9)	T81.9	Unspecified complication of procedure
ICD-9 998.9 maps to ICD-10 T81.9XXA (initial encounter), which is a billable code but is not allowed in the v3 pattern. T81.9 is a non-billable code.			
8037	Pregnacy Complication/Chlidbirth/Labor (ALS-650.0)	O80	Encounter for full-term uncomplicated delivery
v2 CMS/ICD-9 code should be ALS-650.			
8038	Psychiatric/Behavioral (abnormal mental status) (ALS-292.9)	F19.99	Other psychoactive substance use, unspecified with unspecified psychoactive substance-induced disorder
8039	Psychiatric/Behavioral (threat to self or others) (BLS-298.9)	F29	Unspecified psychosis not due to a substance or known physiological condition
8040	Sick Person-Fever (BLS-036.9)	A39.9	Meningococcal infection, unspecified
8041	Severe Dehydration (ALS-787.01)	R11.2	Nausea with vomiting, unspecified
8042	Unconscious/Syncope/Dizziness (ALS-780.02)	R40.4	Transient alteration of awareness
8043	Major Trauma (ALS-959.8)	T07	Unspecified multiple injuries

8044	Other Trauma (need for monitor or airway) (ALS-518.5)	J96.00	Acute respiratory failure, unspecified whether with hypoxia or hypercapnia
	ICD-9 518.5 is a non-billable code. ICD-9 518.51 was used for this mapping.		
8045	Other Trauma (major bleeding) (ALS-958.2)	T79.2	Traumatic secondary and recurrent hemorrhage and seroma
	ICD-9 958.2 maps to ICD-10 T79.2XXA (initial encounter), which is a billable code but is not allowed in the v3 pattern. T79.2 is a non-billable code.		
8046	Other Trauma (fracture/dislocation (BLS-829.0)	T14.8	Other injury of unspecified body region
8047	Other Trauma (penetrating extremity) (BLS-880.0)	S41.009	Unspecified open wound of unspecified shoulder
	v2 CMS/ICD-9 code should be BLS-880.00. ICD-9 880.00 maps to ICD-10 S41.009A (initial encounter), which is a billable code but is not allowed in the v3 pattern. S41.009 is a non-billable code.		
8048	Other Trauma (amputation digits) (BLS-886.0)	S68.119	Complete traumatic metacarpophalangeal amputation of unspecified finger
	CMS also allows CMS/ICD-9 code BLS-895.0. ICD-9 886.0 maps to 4 ICD-10 codes, and ICD-9 895.0 maps to 6 ICD-10 codes, which are also appropriate v3 replacements. ICD-10 S68.119A (initial encounter) is a billable code but is not allowed in the v3 pattern.		
8049	Other Trauma (amputation other) (ALS-887.4)	S48.919	Complete traumatic amputation of unspecified shoulder and upper arm, level unspecified
	CMS also allows CMS/ICD-9 code ALS-897.4. ICD-9 887.4 maps to 2 ICD-10 codes, and ICD-9 897.4 maps to 4 ICD-10 codes, which are also appropriate v3 replacements. ICD-10 S48.919A (initial encounter) is a billable code but is not allowed in the v3 pattern.		
8050	Other Trauma (suspected internal injuries) (ALS-869.0)	S36.90	Unspecified injury of unspecified intra-abdominal organ
	CMS also allows CMS/ICD-9 code ALS-869.1. ICD-9 869.0 maps to ICD-10 S36.90XA (initial encounter), which is a billable code but is not allowed in the v3 pattern. S36.90 is a non-billable code.		
8051	Burns-Major (ALS-949.3)	T30.0	Burn of unspecified body region, unspecified degree
	ICD-9 949.2 and 949.3 both map to ICD-10 T30.0.		
8052	Burns-Minor (BLS-949.2)	T30.0	Burn of unspecified body region, unspecified degree
	ICD-9 949.2 and 949.3 both map to ICD-10 T30.0.		
8053	Animal Bites/Sting/Envenomation (ALS-989.5)	T63.94	Toxic effect of contact with unspecified venomous animal, undetermined
	ICD-9 989.5 maps to ICD-10 T63.94XA (initial encounter), which is a billable code but is not allowed in the v3 pattern. T63.94 is a non-billable code.		
8054	Animal Bites/Stings/Envenomation (BLS-879.8)	S31.000	Unspecified open wound of lower back and pelvis without penetration into retroperitoneum
	ICD-9 879.8 maps to ICD-10 S31.000A (initial encounter), which is a billable code but is not allowed in the v3 pattern. S31.000 is a non-billable code.		
8055	Lightning (ALS-994.0)	T75.00	Unspecified effects of lightning
	ICD-9 994.0 maps to ICD-10 T75.00XA (initial encounter), which is a billable code but is not allowed in the v3 pattern. T75.00 is a non-billable code.		
8056	Electrocution (ALS-994.8)	T75.4	Electrocution
	ICD-9 994.8 maps to ICD-10 T75.4XXA (initial encounter), which is a billable code but is not allowed in the v3 pattern. T75.4 is a non-billable code.		
8057	Near Drowning (ALS-994.1)	T75.1	Unspecified effects of drowning and nonfatal submersion
	ICD-9 994.1 maps to ICD-10 T75.1XXA (initial encounter), which is a billable code but is not allowed in the v3 pattern. T75.1 is a non-billable code.		
8058	Eye Injuries (BLS-921.9)	S05.90	Unspecified injury of unspecified eye and orbit
	ICD-9 921.9 maps to ICD-10 S05.90XA (initial encounter), which is a billable code but is not allowed in the v3 pattern. S05.90 is a non-billable code.		
8059	Sexual Assault (major injuries) (ALS-995.83)	T76.21	Adult sexual abuse, suspected
	ICD-9 995.83 maps to ICD-10 T76.21XA (initial encounter), which is a billable code but is not allowed in the v3 pattern. T76.21 is a non-billable code.		
8060	Sexual Assault (minor injuries) (BLS-995.8)	T76.91	Unspecified adult maltreatment, suspected
	v2 CMS/ICD-9 code should be BLS-995.80. ICD-9 995.80 maps to ICD-10 T76.91XA (initial encounter), which is a billable code but is not allowed in the v3 pattern. T76.91 is a non-billable code.		
8061	Cardiac/Hemodynamic Monitoring Required (ALS-428.9)	I50.9	Heart failure, unspecified
8062	Advanced Airway Management (ALS-518.81)	J96.00	Acute respiratory failure, unspecified whether with hypoxia or hypercapnia
	CMS also allows CMS/ICD-9 code ALS-518.89.		
8064	Chemical Restraint (ALS-293.0)	F05	Delirium due to known physiological condition
8065	Suctioning/Oxygen/IV fluids required (BLS-496.0)	J44.9	Chronic obstructive pulmonary disease, unspecified
	v2 CMS/ICD-9 code should be BLS-496.		
8066	Airway Control/Positioning Required (BLS-786.09)	R06.89	Other abnormalities of breathing

8067	Third Party Assistance/Attendant Required (BLS-496.0)	J43.9	Emphysema, unspecified
v2 CMS/ICD-9 code should be BLS-492.8. Z99.81 Dependence on supplemental oxygen may also be an appropriate v3 replacement.			
8068	Patient Safety (restraints required) (BLS-298.9)	F29	Unspecified psychosis not due to a substance or known physiological condition
8069	Patient Safety (monitoring required) (BLS-293.1)	F05	Delirium due to known physiological condition
8070	Patient Safety (seclusion required) (BLS-298.8)	F23	Brief psychotic disorder
8071	Patient Safety (risk of falling off stretcher) (BLS-781.3)	R27.9	Unspecified lack of coordination
8072	Special Handling (Isolation) (BLS-041.9)	B96.89	Other specified bacterial agents as the cause of diseases classified elsewhere
8073	Special Handling (orthopedic device required) (BLS-907.2)	S24.109	Unspecified injury at unspecified level of thoracic spinal cord
ICD-9 907.2 maps to 4 ICD-10 codes, which are also appropriate v3 replacements. ICD-10 S24.109S (sequela) is a billable code but is not allowed in the v3 pattern. S24.109 is a non-billable code.			
8074	Special Handling (positioning required) (BLS-719.45)	M25.50	Pain in unspecified joint
CMS also allows CMS/ICD-9 code BLS-719.49. ICD-9 719.49 was used in this mapping.			

V2 Element

E07\_35 Condition Code Number

ConditionCodeNumber	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

8063 IV Meds Required (ALS-No ICD code provided)

V3 Element

ePayment.52 CMS Transportation Indicator

CMSTransportationIndicator	
Null Values	No
Is Nillable	No
Recurrence	0 : M

V3 Replacement

C7 IV Medications required en route (ALS)

V2 Element

E07\_36 ICD-9 Code for the Condition Code Number

ICD9CodeForConditionCode	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

eCustomResults.01 Custom Data Element Result

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

Extends ePayment.51

Comment

Mapping

V2 Pattern

.

V3 Replacement

.

*V2 Element***E07\_37 Condition Code Modifier**

ConditionCodeModifier	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

*V3 Element***ePayment.52 CMS Transportation Indicator**

CMSTransportationIndicator	
Null Values	No
Is Nillable	No
Recurrence	0 : M

**Comment****Mapping***V2 Pattern*

1035	A-Interfacility Transport (Requires Higher level of care)
1036	B-Interfacility Transport (service not available)
1037	C-ALS Response to BLS Patient
1038	D-Medically Necessary Transport (Not Nearest Facility)
1039	E-BLS Transport of ALS Patient
1040	F-Emergency Trauma Dispatch Condition Code (patient is BLS)
1041	Air-A-Long Distance
1042	Air-B- Traffic Precludes Ground Transport
1043	Air-C-Time Precludes Ground Transport
1044	Air-D-Pick up Point not Accessible by Ground Transport

*V3 Replacement*

C1	Interfacility Transport (Requires Higher level of care)
C2	Interfacility Transport (service not available)
C6	ALS Response (Based on Dispatch Info) to BLS Patient (Condition)
C4	Medically Necessary Transport (Facility on Divert or Services Unavailable)
C5	BLS Transport of ALS Patient (ALS not available)
C3	Emergency Trauma Dispatch Condition Code (Major Incident or Mechanism of Injury)
D1	Long Distance-patient's condition requires rapid transportation over a long distance
D2	Rare Circumstances, Traffic Patterns Precludes Ground Transport
D3	Time to the closest appropriate hospital due to the patient's condition precludes ground transport; maximize clinical benefits
D4	Pick up Point not Accessible by Ground Transport

V2 Element

E08\_01 Other EMS Agencies at Scene

OtherEMSAgenciesAtScene	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

V3 Element

eScene.02 Other EMS or Public Safety Agencies at Scene

OtherEMSAgenciesAtScene	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v3 eScene.04 Type of Other Service at Scene is set to 2704013 Other EMS Agency.

Mapping

V2 Pattern

V3 Replacement

.

.

*V2 Element***E08\_02 Other Services at Scene**

OtherServicesAtScene	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment
---------

Mapping
---------

*V3 Element***eScene.04 Type of Other Service at Scene**

OtherServicesAtScene	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

*V2 Pattern*

1060	EMS Mutual Aid
1065	Fire
1070	Hazmat
1075	Law
1080	Other Health Care Provider
1085	Other
1090	Rescue
1095	Utilities

*V3 Replacement*

2704001	EMS Mutual Aid
2704003	Fire
2704007	Hazmat
2704009	Law
2704015	Other Health Care Provider
2704011	Other
2704017	Rescue
2704019	Utilities



V2 Element

E08\_03 Estimated Date/Time Initial Responder Arrived on Scene

EstimatedDateTimelInitialResponderOnScene	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

1100	Greater Than 15 minutes
1105	5 - 15 Minutes
1110	Less Than 5 Minutes
1115	After EMS

V3 Element

eCustomResults.01 Custom Data Element Result

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

V3 Replacement

1100	Greater Than 15 minutes
1105	5 - 15 Minutes
1110	Less Than 5 Minutes
1115	After EMS

V2 Element

E08\_04 Date/Time Initial Responder Arrived on Scene

DateTime	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}:[0-9]{2}.

Mapping

V2 Pattern

.!="

V3 Element

eScene.05 Date/Time Initial Responder Arrived on Scene

DateTimeType	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

adjust-dateTime-to-timezone(.)

V2 Element

E08\_05 Number of Patients at Scene

NumberOfPatientsAtScene	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

1120	None
1125	Single
1130	Multiple

V3 Element

eScene.06 Number of Patients at Scene

NumberOfPatientsAtScene	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

2707003	None
2707005	Single
2707001	Multiple

V2 Element

E08\_06 Mass Casualty Incident

YesNoValues	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

0	No
1	Yes

V3 Element

eScene.07 Mass Casualty Incident

YesNoValues	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

9923001	No
9923003	Yes

*V2 Element***E08\_07 Incident Location Type**

IncidentLocationType	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

*V3 Element***eScene.09 Incident Location Type**

IncidentLocationType	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

*V2 Pattern*

1135 Home/Residence

1140 Farm

1145 Mine or Quarry

1150 Industrial Place and Premises

1155 Place of Recreation or Sport

Y92.3 Sports and athletics area as the place of occurrence of the external cause is also an appropriate v3 replacement.

1160 Street or Highway

1165 Public Building (schools, gov. offices)

1170 Trade or service (business, bars, restaurants, etc)

1175 Health Care Facility (clinic, hospital, nursing home)

Y92.53 Ambulatory health services establishments as the place of occurrence of the external cause is also an appropriate v3 replacement.

1180 Residential Institution (Nursing Home, jail/prison)

1185 Lake, River, Ocean

Not precise.

1190 Other Location

v3 supports additional specific values.

*V3 Replacement*

Y92.00 Unspecified non-institutional (private) residence as the place of occurrence of the external cause

Y92.7 Farm as the place of occurrence of the external cause

Y92.64 Mine or pit as the place of occurrence of the external cause

Y92.6 Industrial and construction area as the place of occurrence of the external cause

Y92.83 Recreation area as the place of occurrence of the external cause

Y92.4 Street , highway and other paved roadways as the place of occurrence of the external cause

Y92.2 School, other institution and public administrative area as the place of occurrence of the external cause

Y92.5 Trade and service area as the place of occurrence of the external cause

Y92.23 Hospital as the place of occurrence of the external cause

Y92.10 Unspecified residential institution as the place of occurrence of the external cause

Y92.832 Beach as the place of occurrence of the external cause

Y92.89 Other specified places as the place of occurrence of the external cause

V2 Element

E08\_08 Incident Facility Code

IncidentFacilityCode	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eScene.10 Incident Facility Code

IncidentFacilityCode	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E08\_09 Scene Zone Number

ZoneNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

V3 Element

eCustomResults.01 Custom Data Element Result

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

V3 Replacement

V2 Element

E08\_10 Scene GPS Location

GPSLocation	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

matches(concat(xs:decimal(@Lat),'',xs:decimal(@Long)),'^(\+|-)?(90(\.[0]{1,6})?|([1-8][0-9][0-9])(\.[0-9]{1,6})?),(\+|-)?(180(\.[0]{1,6})?|([0-7][0-9][1-9][0-9][0-9])(\.[0-9]{1,6})?)\$')

V3 Element

eScene.11 Scene GPS Location

GPSLocation	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

concat(xs:decimal(@Lat),'',xs:decimal(@Long))



V2 Element

E08\_11 Incident Address

StreetAddress	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eScene.15 Incident Street Address

StreetAddress	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E08\_12 Incident City

City	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

eScene.17 Incident City

CityGnisCode	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

Comment

v2 allows length 2 to 30 and specifies the use of FIPS. v3 allows any Positive Integer and specifies the use of GNIS. To add mappings, add entries to v2v3ValueMappingvCity or load them from files downloaded from the "State Files with Federal Codes" section at [http://geonames.usgs.gov/domestic/download\\_data.htm](http://geonames.usgs.gov/domestic/download_data.htm). If multiple mappings exist for a FIPS code within a state, priority is given to codes with a census class code that starts with "C", then "P".

Mapping

V2 Pattern

51000                      City of New York

V3 Replacement

2395220                      City of New York

V2 Element

E08\_13 Incident County

County	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

eScene.21 Incident County

ANSICountyCode	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

Maps from FIPS 6 to ANSI INCITS 31. The transition was an oversight change only. There were no changes in the numeric codes. v2 allows length 2 to 5. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[0-9]{5}\$')

V3 Replacement

.

V2 Element

E08\_14 Incident State

State	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

eScene.18 Incident State

ANSIStateCode	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

Maps from FIPS 5 to ANSI INCITS 38. The transition was an oversight change only. There were no changes in the numeric codes. v2 allows length 2 to 3. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[0-9]{2}\$')

V3 Replacement

.  
00

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

V2 Element

E08\_15 Incident ZIP Code

Zip	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

V3 Element

eScene.19 Incident ZIP Code

ZIP	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

v2 allows any String, unconstrained. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^([0-9]{5})|([0-9]{5})-([0-9]{4})|([0-9]{5})-([0-9]{5})|([A-Z][0-9][A-Z] [0-9][A-Z][0-9])\$')

V3 Replacement

normalize-space(.)

*V2 Element***E09\_01 Prior Aid**

PriorAid	
Null Values	Yes
Is Nillable	No
Recurrence	1 : M

*V3 Element***eCustomResults.01 Custom Data Element Result**

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

Extends eProcedures.03

**Comment****Mapping***V2 Pattern*

100.200	Extrication
100.300	Patient Loaded
100.301	Patient Loaded-Helicopter Hot-Load
100.302	Patient Off-Loaded
100.303	Patient Off-Loaded Helicopter Hot Off-Load
101.101	Specialty Center Activation-Adult Trauma
101.102	Specialty Center Activation-Pediatric Trauma
101.103	Specialty Center Activation-Cardiac Arrest
101.104	Specialty Center Activation-STEMI
101.105	Specialty Center Activation-Stroke
101.201	Activation-Advanced Hazmat Specialty Service/Response Team
101.203	Activation-Other Specialty Service/Response Team
101.204	Activation-Rescue Specialty Service/Response Team
101.206	Activation-Tactical or SWAT Specialty Service/Response Team
89.821	12 Lead ECG-Transmitted
96.992	Airway-Intubation Confirm Esophageal Bulb
99.615	CPR-Stop

*V3 Replacement*

100.200	Extrication
100.300	Patient Loaded
100.301	Patient Loaded-Helicopter Hot-Load
100.302	Patient Off-Loaded
100.303	Patient Off-Loaded Helicopter Hot Off-Load
101.101	Specialty Center Activation-Adult Trauma
101.102	Specialty Center Activation-Pediatric Trauma
101.103	Specialty Center Activation-Cardiac Arrest
101.104	Specialty Center Activation-STEMI
101.105	Specialty Center Activation-Stroke
101.201	Activation-Advanced Hazmat Specialty Service/Response Team
101.203	Activation-Other Specialty Service/Response Team
101.204	Activation-Rescue Specialty Service/Response Team
101.206	Activation-Tactical or SWAT Specialty Service/Response Team
89.821	12 Lead ECG-Transmitted
96.992	Airway-Intubation Confirm Esophageal Bulb
99.615	CPR-Stop

*V2 Element*

## E09\_01 Prior Aid

*V3 Element*

## eMedications.03 Medication Given

PriorAid		Medication	
Null Values	Yes	Null Values	Yes
Is Nillable	No	Is Nillable	Yes
Recurrence	1 : M	Recurrence	1 : 1

## Comment

## Mapping

*V2 Pattern**V3 Replacement*

7806

Oxygen

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

50% Dextrose

237653

Glucose 500 MG/ML Injectable Solution

TTY=SCD.

9% NSS

313002

Sodium Chloride 0.9% Injectable Solution

TTY=SCD/SY. V2 value is incorrect; it should be 0.9% NSS.

Acetaminophen

161

Acetaminophen

Adenosine

296

Adenosine

Albuterol

435

Albuterol

Albuterol 2.5/ Atrovent 0.5

214199

Albuterol / Ipratropium

TTY=MIN.

Albuterol Sulfate

435

Albuterol

Amiodarone

703

Amiodarone

Amiodarone (Cordarone)

703

Amiodarone

Amiodarone (Cordarone)

703

Amiodarone

ASA

1191

Aspirin

Aspirin

1191

Aspirin

Aspirin (ASA)

1191

Aspirin

Aspirin 81-325 mg

1191

Aspirin

Ativan

6470

Lorazepam

Atropine

1223

Atropine

Atropine Sulfate

1223

Atropine

Atrovent

7213

Ipratropium

Atrovent (Ipratropium Bromide)

7213

Ipratropium

Atrovent 0.5mg /Albuterol 3.0m

214199

Albuterol / Ipratropium

TTY=MIN.

Atrovent 0.5mg/Albuterol 3.0mg

214199

Albuterol / Ipratropium

TTY=MIN.

Baby Aspirin

1191

Aspirin

Benadryl

3498

Diphenhydramine

Calcium Chloride

1901

Calcium Chloride

Cardizem

3443

Diltiazem

D50	237653	Dextrose 50 % Injectable Solution
TTY=SCD/SY.		
D5W (Dextrose 5% in Water)	309778	Dextrose 5 % Injectable Solution
TTY=SCD/SY.		
D5W w/ 1/2 Normal Saline	309806	Dextrose 5 % / sodium chloride 0.45 % Injectable Solution
TTY=SCD/SY.		
Dexamethasone (Decadron)	3264	Dexamethasone
Dextrose	4850	Glucose
DEXTROSE 50 %	237653	Dextrose 50 % Injectable Solution
TTY=SCD/SY.		
Dextrose 50%	237653	Dextrose 50 % Injectable Solution
TTY=SCD/SY.		
Dextrose 50% (D50)	237653	Dextrose 50 % Injectable Solution
TTY=SCD/SY.		
Diazepam	3322	Diazepam
Diazepam (Valium)	3322	Diazepam
Dilaudid	3423	Hydromorphone
Diltiazem	3443	Diltiazem
Diltiazem (Cardizem)	3443	Diltiazem
Diphenhydramine	3498	diphenhydramine
DIPHENHYDRAMINE (BENADRYL)	3498	diphenhydramine
Diphenhydramine (Benedryl)	3498	diphenhydramine
Dopamine	3628	Dopamine
DuoNeb	204199	Albuterol / Ipratropium
TTY=MIN.		
DuoNeb (0.5 Atrovent/3.0 Albut)	204199	Albuterol / Ipratropium
TTY=MIN. V2 value is contradictory. DuoNeb is not 3.0 albuterol / 0.5 ipratropium.		
EPI 1:10,000	317361	Epinephrine 0.1 MG/ML
TTY=SCDC.		
EPI 1:10000	317361	Epinephrine 0.1 MG/ML
TTY=SCDC.		
Epinephrine	3992	Epinephrine
Epinephrine (1:10,000)	317361	Epinephrine 0.1 MG/ML
TTY=SCDC.		
Epinephrine 1:1,000	328316	Epinephrine 1 MG/ML
TTY=SCDC.		
Epinephrine 1:10	317361	Epinephrine 0.1 MG/ML
TTY=SCDC. V2 value is incorrect. It should be 1:10,000.		
Epinephrine 1:10,000	317361	Epinephrine 0.1 MG/ML
TTY=SCDC.		
Epinephrine 1:1000	328316	Epinephrine 1 MG/ML
TTY=SCDC.		
Epi-Pen Adult	328316	Epinephrine 1 MG/ML
TTY=SCDC.		
Etomidate	4177	Etomidate
Fentanyl	4337	Fentanyl
Fentanyl (Sublimaze)	4337	Fentanyl
Furosemide	4603	Furosemide
Furosemide (Lasix)	4603	Furosemide



Glucagon	4832	Glucagon
Glucose (Oral)	4850	Glucose
Haloperidol (Haldol)	5093	Haloperidol
Heparin	5224	Heparin
Hydromorphone (Dilaudid)	3423	Hydromorphone
IBUPROFEN	5640	Ibuprofen
insulin	5856	Insulin
Ipratropium	7213	Ipratropium
Ipratropium (Atrovent)	7213	Ipratropium
Ketorolac (Toradol)	35827	Ketorolac
Labetalol	6185	Labetalol
Lactated Ringers	35629	Lactated Ringer's Solution
Lasix	4603	Furosemide
Levalbuterol HCL (Xopenex)	237159	Levalbuterol
Lidocaine	6387	Lidocaine
Lopressor	6918	Metoprolol
Lorazepam	6470	Lorazepam
Lorazepam (Ativan)	6470	Lorazepam
LOVENOX	67108	Enoxaparin
Magnesium Sulfate	6585	Magnesium Sulfate
Meperidine (Demerol)	6754	Meperidine
Methylprednisolone	6902	Methylprednisolone
Methylprednisolone (Solu-Medro	6902	Methylprednisolone
Methylprednisolone/Solu-Medrol	6902	Methylprednisolone
Metoprolol (Lopressor)	6918	Metoprolol
Midazolam	6960	Midazolam
Midazolam (Versed)	6960	Midazolam
Morphine	7052	Morphine
Morphine Sulfate	7052	Morphine
Naloxone	7242	Naloxone
Naloxone (Narcan)	7242	Naloxone
Narcan	7242	Naloxone
Nitro Spray	4917	Nitroglycerin
Nitroglycerin	4917	Nitroglycerin
Nitroglycerin Infusion	4917	Nitroglycerin
Nitroglycerin Paste	4917	Nitroglycerin
Nitroglycerin SL	4917	Nitroglycerin
Nitroglycerin Spray	4917	Nitroglycerin
Nitroglycerin, (spray or tabs)	4917	Nitroglycerin
Nitroglycerine	4917	Nitroglycerin
Nitroglycerine (0.4 mg)	4917	Nitroglycerin
Nitroglycerine SL	4917	Nitroglycerin
Nitroglycerine Spray	4917	Nitroglycerin
Nitroglycerine Tabs	4917	Nitroglycerin
Nitrostat	4917	Nitroglycerin

Norepinephrine	7512	NorEpinephrine
Normal Saline	313002	Sodium Chloride 0.9% Injectable Solution
TTY=SCD/SY. 125464 Normal saline is an appropriate v3 replacement if it was used for irrigation instead of injection.		
Normal Saline (Respiratory Use)	379454	Sodium Chloride Inhalant Solution
TTY=SCDF.		
Normal Saline IV Solution	313002	Sodium Chloride 0.9% Injectable Solution
TTY=SCD/SY. 125464 Normal saline is an appropriate v3 replacement if it was used for irrigation instead of injection.		
Normal Saline Solution	313002	Sodium Chloride 0.9% Injectable Solution
TTY=SCD/SY. 125464 Normal saline is an appropriate v3 replacement if it was used for irrigation instead of injection.		
Ondansetron	26225	Ondansetron
Ondansetron (Zofran)	26225	Ondansetron
Ondansetron	26225	Ondansetron
Oral Glucose	4850	Glucose
Oxygen	7806	Oxygen
Oxygen (non-rebreather mask)	7806	Oxygen
OXYGEN (O2)	7806	Oxygen
OXYGEN ADMINISTRATION	7806	Oxygen
Oxygen by Blow By	7806	Oxygen
Oxygen by BVM	7806	Oxygen
Oxygen by Mask	7806	Oxygen
Oxygen by Nasal Cannula	7806	Oxygen
Oxygen by Nebulizer	7806	Oxygen
Oxygen by Non-Rebreather Mask	7806	Oxygen
Oxygen by Positive Pressure De	7806	Oxygen
PHENERGAN	8745	Promethazine
plavix	32968	clopidogrel
PROMETHAZINE	8745	Promethazine
Promethazine HCl (Phenergan)	8745	Promethazine
Promethazine HCL (Phenergran)	8745	Promethazine
PROPOFOL	8782	Propofol
Rocephin	2193	Ceftriaxone
Rocuronium Bromide (Zemuron)	68139	Rocuronium
Saline	313002	Sodium Chloride 0.9% Injectable Solution
TTY=SCD/SY. 125464 Normal saline is an appropriate v3 replacement if it was used for irrigation instead of injection.		
Sodium Bicarbonate	36676	Sodium Bicarbonate
SODIUM CHLORIDE 0.9%	313002	Sodium Chloride 0.9% Injectable Solution
TTY=SCD/SY. 125464 Normal saline is an appropriate v3 replacement if it was used for irrigation instead of injection.		
Solu-Medro (Methylprednisone S	6902	Methylprednisolone
Solumedrol	6902	Methylprednisolone
Solu-Medrol	6902	Methylprednisolone
Succinylcholine	10154	Succinylcholine
Succinylcholine (Anectine)	10154	Succinylcholine
Thiamine	10454	Thiamine
TORADOL	35827	Ketorolac
Tylenol	5640	Acetaminophen
VALIUM	3322	Diazepam
Vancomycin	11124	Vancomycin

Vasopressin	11149	Vasopressin (USP)
Vecuronium	71535	Vecuronium
Vecuronium (Norcuron)	71535	Vecuronium
Versed	6960	Midazolam
XOPENEX	237159	Levalbuterol
Zofran	26225	Ondansetron

*V2 Element***E09\_01 Prior Aid***V3 Element***eProcedures.03 Procedure**

PriorAid		snomed	
Null Values	Yes	Null Values	Yes
Is Nillable	No	Is Nillable	Yes
Recurrence	1 : M	Recurrence	1 : 1

**Comment****Mapping***V2 Pattern**V3 Replacement*

1.181	CNS Catheter-Epidural Maintenance	424432007	Epidural catheter maintenance
1.182	CNS Catheter-Intraventricular Maintenance	230937006	Procedure for monitoring intracranial pressure
Not precise.			
100.100	Rescue	83887000	Rescue vehicle
Rescue vehicle (a device, not a procedure) should only be used for v2.2.1 to v3.x mapping purposes. This description does not represent rescue efforts made by the responders to remove the patient from the environment.			
101.202	Activation-Fire Rehabilitation Specialty Service/Response Team	165189005	Medical evaluation for rehabilitation
Not precise.			
101.205	Activation-Social Services Notification/Referral	306238000	Referral to Social Services
101.500	Contact Medical Control	304562007	Informing doctor
31.110	Airway-Needle Cricothyrotomy	232689008	Percutaneous cricothyroidotomy
31.120	Airway-Surgical Cricothyrotomy	232692007	Open cricothyroidotomy
31.420	Airway-Direct Laryngoscopy	78121007	Direct laryngoscopy
31.421	Airway-Video Laryngoscopy	673005	Indirect laryngoscopy
34.041	Chest Decompression	182705007	Tension pneumothorax relief
34.042	Chest Tube Placement	264957007	Insertion of pleural tube drain
37.000	Pericardiocentesis	309849004	Pericardiocentesis
37.611	Intra-Aortic Balloon Pump Maintenance	34475007	Intraaortic balloon pump maintenance
37.612	Left Ventricular Assist Device Maintenance	386237008	Circulatory care: mechanical assist device
38.910	Arterial Access-Blood Draw	55841001	Arterial puncture for withdrawal of blood for diagnosis
38.990	Venous Access-Blood Draw	396540005	Phlebotomy
38.991	Venous Access-Existing Catheter	397901004	Pre-existing line accessed
38.992	Venous Access-Extremity	392230005	Catheterization of vein
38.993	Venous Access-External Jugular Line	405427009	Catheterization of external jugular vein
38.994	Venous Access-Femoral Line	405442007	Catheterization of common femoral vein
38.995	Blood Glucose Analysis	33747003	Glucose measurement, blood
39.995	Venous Access-Internal Jugular Line	405425001	Catheterization of internal jugular vein
39.996	Venous Access-Subclavian Line	405430002	Catheterization of subclavian vein
39.997	Venous Access-Discontinue	103715008	Removal of catheter
424287005 Removal of peripheral intravenous catheter is also an appropriate v3 replacement.			
39.998	Venous Access-Umbilical Vein Cannulation	42550007	Catheterization of umbilical vein

41.920	Venous Access-Intraosseous Adult	430824005	Intraosseous cannulation
41.921	Venous Access-Intraosseous Pediatric	430824005	Intraosseous cannulation
57.940	Urinary Catheterization	410024004	Insertion of catheter into urinary bladder
73.590	Childbirth	236973005	Delivery procedure
79.700	Joint Reduction/Relocation	58825001	Closed reduction of dislocation
86.090	Escharotomy	70177008	Escharotomy
86.280	Decontamination	409530006	Decontamination
89.391	Capnography (CO2 Measurement)	284029005	Respired carbon dioxide monitoring
89.392	Pulse Oximetry	252465000	Pulse oximetry
89.510	Cardiac Monitor	88140007	Cardiac monitor surveillance
89.590	Orthostatic Blood Pressure Measurement	425058005	Taking orthostatic vital signs
89.599	"Patient Monitoring of Pre-existing Devices, Equipment, or Ongoing Medications"	182777000	Monitoring of patient
89.610	Arterial Line Maintenance	422744007	Arterial catheter care
89.620	Venous Access-Central Line Maintenance	226005007	Care of central line
89.640	Venous Access-Swan Ganz Maintenance	42340005	Pulmonary artery wedge pressure monitoring
89.700	Assessment-Adult	422440002	Adult continuous physical assessment
89.701	Assessment-Pediatric	423850004	Pediatric continuous physical assessment
423589000 Newborn continuous physical assessment may also be an appropriate v3 replacement.			
89.702	Pain Measurement	225399009	Pain assessment (procedure)
89.703	Temperature Measurement	56342008	Temperature taking (procedure)
89.704	Thrombolytic Screen	20135006	Screening procedure
Not precise.			
89.820	12 Lead ECG-Obtain	268400002	12 lead ECG
93.055	Wound Care-Taser Barb Removal	302421003	Removal of foreign body from skin
Not precise.			
93.056	Wound Care-Tourniquet	20655006	Application of tourniquet
93.057	Wound Care-General	225358003	Wound care
93.058	Wound Care-Irrigation	225116006	Irrigation of wound
93.059	Wound Care-Hemostatic Agent	372045002	Application of chemical hemostatic agents
93.350	"Patient Warming (Hot Pack, etc.)"	431949004	Active external warming of subject
93.450	Splinting-Traction	302488007	Application of traction using a traction device
59900003 Manual and mechanical traction is also an appropriate v3 replacement.			
93.540	Splinting-Basic	79321009	Application of splint
93.580	MAST	448970001	Application of pressure trouser (procedure)
93.591	Spinal Immobilization	426498007	Stabilization of spine
398041008 Cervical spine immobilization is also an appropriate v3 replacement.			
93.900	Airway-CPAP	47545007	Continuous positive airway pressure ventilation treatment
93.910	Airway-Respirator Operation (BLS)	40617009	Artificial respiration
93.930	Airway-Bagged (via tube)	243140006	Lung inflation by intermittent compression of reservoir bag
93.931	Airway-Bagged (via BVMask)	425447009	Bag valve mask ventilation
93.940	Airway-Nebulizer Treatment	56251003	Nebulizer treatment
96.010	Airway-Nasal	182692007	Nasopharyngeal airway insertion
96.020	Airway-Oral	7443007	Insertion of oropharyngeal airway
96.030	Airway-EOA/EGTA	232673005	Obturator airway insertion
96.040	Airway-Orotracheal Intubation	232674004	Orotracheal intubation

96.041	Airway-Nasotracheal Intubation	232679009	Nasotracheal intubation
96.042	Airway-Rapid Sequence Induction	241689008	Rapid sequence induction
96.051	Airway-Combitube Blind Insertion Airway Device	429705000	Insertion of esophageal tracheal combitube
96.052	Airway-Laryngeal Mask Blind Insertion Airway Device	424979004	Laryngeal mask airway insertion
96.053	Airway-King LT Blind Insertion Airway Device	450611000124100	Insertion of Single Lumen Supraglottic Airway Device
96.070	Gastric Tube Insertion-Inserted Nasally	87750000	Insertion of nasogastric tube
96.071	Gastric Tube Insertion-Inserted Orally	235425002	Insertion of orogastric tube
96.700	Airway-Ventilator Operation	8948006	Assisted ventilation therapy, pressure or volume preset, initiation and management
96.701	Airway-Ventilator with PEEP	45851008	Positive end expiratory pressure ventilation therapy, initiation and management
96.702	Airway-BiPAP	243142003	Dual pressure spontaneous ventilation support
96.703	Airway-Impedance Threshold Device	441893003	Active compression decompression cardiopulmonary resuscitation with use of inspiratory impedance threshold device
96.790	Airway-PEEP	45851008	Positive end expiratory pressure ventilation therapy, initiation and management
96.991	Airway-Intubation Confirm Colorimetric ETCO2	428482009	Colorimetric respired carbon dioxide monitoring
96.993	Airway-Extubation	232708009	Removal of device from airway
97.230	Airway-Change Tracheostomy Tube	2267008	Changing tracheostomy tube
97.231	Airway-Intubation of Existing Tracheostomy Stoma	232685002	Insertion of tracheostomy tube
98.130	"Airway-Cleared, Opened, or Heimlich"	232707004	Removal of foreign body from airway
v2 value 98.131 Airway-Foreign Body Removal also maps to this v3 value. 23690002 Heimlich maneuver is also an appropriate v3 replacement.			
98.131	Airway-Foreign Body Removal	232707004	Removal of foreign body from airway
98.150	Airway-Suctioning	230040009	Airway suction technique
99.290	Injections-SQ/IM	24456005	Injection of soft tissue
76601001 Intramuscular injection and 32282008 Subcutaneous injection are among the children of this code.			
99.600	CPR-Start Compressions and Ventilations	89666000	Cardiopulmonary resuscitation
99.601	CPR by Other External Automated Device	429283006	Mechanically assisted chest compression
Unable to distinguish from AutoPulse or Mechanical Thumper Type Device.			
99.602	CPR-AutoPulse Device	429283006	Mechanically assisted chest compression
Unable to distinguish from Mechanical Thumper or Other External Automated Device.			
99.603	CPR-Mechanical Thumper Type Device	429283006	Mechanically assisted chest compression
Unable to distinguish from AutoPulse or Other External Automated Device.			
99.604	CPR-Precordial Thump Only	225708008	Precordial thump
99.611	CPR-Start Compressions only without Ventilation	69779005	Cardiac resuscitation
99.612	CPR-Start Rescue Breathing without Compressions	37113006	Mouth-to-mouth resuscitation
11140008 Respiratory assist, manual is also an appropriate v3 replacement.			
99.621	Defibrillation-Automated (AED)	450661000124102	Defibrillation using automated external cardiac defibrillator
99.622	Defibrillation-Manual	426220008	External ventricular defibrillation
Unable to distinguish from automated defibrillation.			
99.623	Cardioversion	250980009	Cardioversion
99.624	Cardiac Pacing-External	59218006	Temporary transcutaneous pacing
99.625	Defibrillation-Placement for Monitoring/Analysis	23852006	Cardiac monitoring
99.626	Cardiac Pacing-Transvenous	233178005	Insertion of endocardial electrode for temporary cardiac pacing
99.640	Vagal Maneuver-Carotid Massage	448334008	Carotid sinus massage test
99.641	Vagal Maneuver-Valsalva or Other Vagal Maneuver (Not Carotid Massage)	128968000	Vagal stimulation physiologic challenge

99.810	"Patient Cooling (Cold Pack, etc.)"	431774007	Active external cooling of subject
99.811	Patient Cooling-Post Resuscitation	430189000	Hypothermia induction therapy
99.841	Restraints-Pharmacological	406164000	Chemical restraint
99.842	Restraints-Physical	386423001	Physical restraint

*V2 Element***E09\_02 Prior Aid Performed by***V3 Element***eCustomResults.01 Custom Data Element Result**

PriorAidPerformedBy		CustomResults	
Null Values	Yes	Null Values	Yes
Is Nillable	No	Is Nillable	Yes
Recurrence	1 : M	Recurrence	1 : M
Comment			

This mapping is performed if there are multiple instances of Prior Aid Performed By in v2.

**Mapping***V2 Pattern**V3 Replacement*

1195	EMS Provider	9905019	Other Healthcare Professional
Not precise.			
1200	Law Enforcement	9905021	Other Non-Healthcare Professional
Not precise.			
1205	Lay Person	9905023	Patient/Lay Person
Not precise.			
1210	Other Healthcare Provider	9905019	Other Healthcare Professional
v2 also supports a specific value for EMS Provider.			
1215	Patient	9905023	Patient/Lay Person
Not precise.			



*V2 Element***E09\_02 Prior Aid Performed by**

PriorAidPerformedBy	
Null Values	Yes
Is Nillable	No
Recurrence	1 : M

*V3 Element***eMedications.10 Role/Type of Person Administering Medication**

EMSCaregiverLevel	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

**Comment**

This mapping is performed if there is one instance of Prior Aid Performed By in v2.

**Mapping***V2 Pattern*

1195	EMS Provider
Not precise.	
1200	Law Enforcement
Not precise.	
1205	Lay Person
Not precise.	
1210	Other Healthcare Provider
v2 also supports a specific value for EMS Provider.	
1215	Patient
Not precise.	

*V3 Replacement*

9905019	Other Healthcare Professional
9905021	Other Non-Healthcare Professional
9905023	Patient/Lay Person
9905019	Other Healthcare Professional
9905023	Patient/Lay Person

*V2 Element***E09\_02 Prior Aid Performed by**

PriorAidPerformedBy	
Null Values	Yes
Is Nillable	No
Recurrence	1 : M

*V3 Element***eProcedures.10 Role/Type of Person Performing the Procedure**

EMSCaregiverLevel	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

**Comment**

This mapping is performed if there is one instance of Prior Aid Performed By in v2.

**Mapping***V2 Pattern*

1195	EMS Provider
Not precise.	
1200	Law Enforcement
Not precise.	
1205	Lay Person
Not precise.	
1210	Other Healthcare Provider
v2 also supports a specific value for EMS Provider.	
1215	Patient
Not precise.	

*V3 Replacement*

9905019	Other Healthcare Professional
9905021	Other Non-Healthcare Professional
9905023	Patient/Lay Person
9905019	Other Healthcare Professional
9905023	Patient/Lay Person

V2 Element

E09\_03 Outcome of the Prior Aid

OutcomeOfPriorAid	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

V3 Element

eMedications.07 Response to Medication

Response	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

This mapping is applied to all instances of Prior Aid in v2.

Mapping

V2 Pattern

1220	Improved
1225	Unchanged
1230	Worse

V3 Replacement

9916001	Improved
9916003	Unchanged
9916005	Worse

V2 Element

E09\_03 Outcome of the Prior Aid

OutcomeOfPriorAid	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

V3 Element

eProcedures.08 Response to Procedure

Response	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

This mapping is applied to all instances of Prior Aid in v2.

Mapping

V2 Pattern

1220	Improved
1225	Unchanged
1230	Worse

V3 Replacement

9916001	Improved
9916003	Unchanged
9916005	Worse

V2 Element

E09\_04 Possible Injury

YesNoValues	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

0	No
1	Yes

V3 Element

eSituation.02 Possible Injury

YesNoUnkValues	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

9922001	No
9922005	Yes

V2 Element

E09\_05 Chief Complaint

ChiefComplaintNarrative	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

v3 eSituation.03 Complaint Type is set to 2803001 Chief (Primary).

Mapping

V2 Pattern

.

V3 Element

eSituation.04 Complaint

Complaint	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E09\_06 Duration of Chief Complaint

DurationOfChiefComplaint	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v3 eSituation.03 Complaint Type is set to 2803001 Chief (Primary).

Mapping

V2 Pattern

.

V3 Element

eSituation.05 Duration of Complaint

DurationComplaint	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E09\_07 Time Units of Duration of Chief Complaint

TimeUnitsOfChiefComplaint	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Element

eSituation.06 Time Units of Duration of Complaint

TimeUnitsOfChiefComplaint	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

Comment

v3 eSituation.03 Complaint Type is set to 2803001 Chief (Primary).

Mapping

V2 Pattern		V3 Replacement	
1235	Seconds	2806001	Seconds
1240	Minutes	2806003	Minutes
1245	Hours	2806005	Hours
1250	Days	2806007	Days
1255	Weeks	2806009	Weeks
1260	Months	2806011	Months
1265	Years	2806013	Years



V2 Element

E09\_08 Secondary Complaint Narrative

SecondaryComplaintNarrative	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

v3 eSituation.03 Complaint Type is set to 2803005 Secondary.

Mapping

V2 Pattern

.

V3 Element

eSituation.04 Complaint

Complaint	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E09\_09 Duration of Secondary Complaint

DurationOfSecondaryComplaint	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Element

eSituation.05 Duration of Complaint

DurationComplaint	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

Comment

v3 eSituation.03 Complaint Type is set to 2803005 Secondary.

Mapping

V2 Pattern

V3 Replacement

.

.

V2 Element

E09\_10 Time Units of Duration of Secondary Complaint

TimeUnitsOfSecondaryComplaint	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Element

eSituation.06 Time Units of Duration of Complaint

TimeUnitsOfChiefComplaint	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

Comment

v3 eSituation.03 Complaint Type is set to 2803005 Secondary.

Mapping

V2 Pattern

1270	Seconds
1275	Minutes
1280	Hours
1285	Days
1290	Weeks
1295	Months
1300	Years

V3 Replacement

2806001	Seconds
2806003	Minutes
2806005	Hours
2806007	Days
2806009	Weeks
2806011	Months
2806013	Years

*V2 Element***E09\_11 Chief Complaint Anatomic Location**

ComplaintAnatomicLocation	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

*V3 Element***eSituation.07 Chief Complaint Anatomic Location**

ComplaintAnatomicLocation	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

*V2 Pattern*

1305	Abdomen
1310	Back
1315	Chest
1320	Extremity-Lower
1325	Extremity-Upper
1330	General/Global
1335	Genitalia
1340	Head
1345	Neck

*V3 Replacement*

2807001	Abdomen
2807003	Back
2807005	Chest
2807007	Extremity-Lower
2807009	Extremity-Upper
2807011	General/Global
2807013	Genitalia
2807015	Head
2807017	Neck

*V2 Element***E09\_12 Chief Complaint Organ System**

ComplaintOrganSystem	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

*V3 Element***eSituation.08 Chief Complaint Organ System**

ComplaintOrganSystem	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

*V2 Pattern*

1350	Cardiovascular
1355	CNS/Neuro
1360	Endocrine/Metabolic
1365	GI
1370	Global
1375	Musculoskeletal
1380	OB/Gyn
1385	Psych
1390	Pulmonary
1395	Renal
1400	Skin

*V3 Replacement*

2808003	Cardiovascular
2808005	CNS/Neuro
2808007	Endocrine/Metabolic
2808009	GI
2808011	Global/General
2808015	Musculoskeletal/Skin
2808017	Reproductive
2808001	Behavioral/Psychiatric
2808019	Pulmonary
2808021	Renal
2808015	Musculoskeletal/Skin

V2 Element

E09\_13 Primary Symptom

PrimarySymptom	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

V3 Element

eCustomResults.01 Custom Data Element Result

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

Extends eSituation.09

Comment

Mapping

V2 Pattern

1430	Device/Equipment Problem
1440	Drainage/Discharge

V3 Replacement

1430	Device/Equipment Problem
1440	Drainage/Discharge

*V2 Element***E09\_13 Primary Symptom**

PrimarySymptom	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

*V3 Element***eSituation.09 Primary Symptom**

AssociatedSymptoms	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

*V2 Pattern**V3 Replacement*

1405	Bleeding	R58	Hemorrhage, not elsewhere classified
1410	Breathing Problem	R06.9	Unspecified abnormalities of breathing
1415	Change in responsiveness	R46.4	Slowness and poor responsiveness
1420	Choking	T17.90	Unspecified foreign body in respiratory tract, part unspecified
R09.89 Other specified symptoms and signs involving the circulatory and respiratory systems covers choking sensation may also be an appropriate v3 replacement.			
1425	Death	R99	Ill-defined and unknown cause of mortality
1435	Diarrhea	R19.7	Diarrhea, unspecified
1445	Fever	R50.9	Fever, unspecified
1450	Malaise	R53.81	Other malaise
1455	Mass/Lesion	R22.9	Localized swelling, mass and lump, unspecified
1460	Mental/Psych	R45.7	State of emotional shock and stress, unspecified
1465	Nausea/Vomiting	R11.2	Nausea with vomiting, unspecified
R11.0 Nausea and R11.10 Vomiting, unspecified are also appropriate v3 replacements.			
1470	None	<xsl:attribute name="xsi:nil">true</xsl:attribute><xsl:attribute name="NV">7701001</xsl:attribute>	Not Applicable
The v3 elements for symptoms do not allow pertinent negatives, and no ICD-10 code is available to indicate the absence of symptoms.			
1475	Pain	R52	Pain, unspecified
1480	Palpitations	R00.2	Palpitations
1485	Rash/Itching	R21	Rash and other nonspecific skin eruption
L29.9 Pruritus, unspecified is also an appropriate v3 replacement.			
1490	Swelling	R22	Localized swelling, mass and lump of skin and subcutaneous tissue
1495	Transport Only	<xsl:attribute name="xsi:nil">true</xsl:attribute><xsl:attribute name="NV">7701001</xsl:attribute>	Not Applicable
No ICD-10 code is available to indicate "transport only."			
1500	Weakness	R53.1	Weakness
1505	Wound	T14.8	Other injury of unspecified body region

V2 Element

E09\_14 Other Associated Symptoms

OtherAssociatedSymptoms	
Null Values	Yes
Is Nillable	No
Recurrence	1 : M

V3 Element

eCustomResults.01 Custom Data Element Result

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

Extends eSituation.10

Comment

Mapping

V2 Pattern

1535	Device/Equipment Problem
1545	Drainage/Discharge

V3 Replacement

1535	Device/Equipment Problem
1545	Drainage/Discharge



*V2 Element***E09\_14 Other Associated Symptoms***V3 Element***eSituation.10 Other Associated Symptoms**

OtherAssociatedSymptoms		AssociatedSymptoms	
Null Values	Yes	Null Values	Yes
Is Nillable	No	Is Nillable	Yes
Recurrence	1 : M	Recurrence	1 : M

Comment

Mapping

*V2 Pattern**V3 Replacement*

1510	Bleeding	R58	Hemorrhage, not elsewhere classified
1515	Breathing Problem	R06.9	Unspecified abnormalities of breathing
1520	Change in responsiveness	R46.4	Slowness and poor responsiveness
1525	Choking	T17.90	Unspecified foreign body in respiratory tract, part unspecified
R09.89 Other specified symptoms and signs involving the circulatory and respiratory systems covers choking sensation may also be an appropriate v3 replacement.			
1530	Death	R99	Ill-defined and unknown cause of mortality
1540	Diarrhea	R19.7	Diarrhea, unspecified
1550	Fever	R50.9	Fever, unspecified
1555	Malaise	R53.81	Other malaise
1560	Mass/Lesion	R22.9	Localized swelling, mass and lump, unspecified
1565	Mental/Psych	R45.7	State of emotional shock and stress, unspecified
1570	Nausea/Vomiting	R11.2	Nausea with vomiting, unspecified
R11.0 Nausea and R11.10 Vomiting, unspecified are also appropriate v3 replacements.			
1575	None	<xsl:attribute name="xsi:nil">true</xsl:attribute><xsl:attribute name="NV">7701001</xsl:attribute>	
		Not Applicable	
The v3 elements for symptoms do not allow pertinent negatives, and no ICD-10 code is available to indicate the absence of symptoms.			
1580	Pain	R52	Pain, unspecified
1585	Palpitations	R00.2	Palpitations
1590	Rash/Itching	R21	Rash and other nonspecific skin eruption
L29.9 Pruritus, unspecified is also an appropriate v3 replacement.			
1595	Swelling	R22	Localized swelling, mass and lump of skin and subcutaneous tissue
1600	Transport Only	<xsl:attribute name="xsi:nil">true</xsl:attribute><xsl:attribute name="NV">7701001</xsl:attribute>	
		Not Applicable	
No ICD-10 code is available to indicate "transport only."			
1605	Weakness	R53.1	Weakness
1610	Wound	T14.8	Other injury of unspecified body region

## V2 Element

## E09\_15 Providers Primary Impression

ProvidersPrimaryImpression	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

## V3 Element

## eSituation.11 Provider's Primary Impression

ProvidersImpression	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

## Comment

In v3, a NEMSIS white paper recommends limited use of R codes for impressions. However, many v2 impressions are actually signs or symptoms and must be mapped to R codes in v3.

## Mapping

## V2 Pattern

.=1695 and .././E06/E06\_14\_0/E06\_15=700

## V3 Replacement

'P84'

Other problems with newborn

659.90- Pregnancy / OB delivery

ICD-10 codes beginning with P are to be used on a newborn's record. This mapping is used when patient age unit is hours.

1615	789.00- Abdominal pain / problems	R10.9	Unspecified abdominal pain
1620	519.80- Airway obstruction	T17.900	Unspecified foreign body in respiratory tract, part unspecified causing asphyxiation, initial encounter
ICD-9 code 519.8 is Other diseases of respiratory system, not elsewhere classified. Mapping based on v2 label.			
1625	995.30- Allergic reaction	T78.40	Allergy, unspecified
1630	780.09- Altered level of consciousness	R41.82	Altered mental status, unspecified
780.09 is Other alteration of consciousness. Mapping based on v2 label.			
1635	312.90- Behavioral / psychiatric disorder	F99	Mental disorder, not otherwise specified
1640	427.50- Cardiac arrest	I46.9	Cardiac arrest, cause unspecified
1645	427.90- Cardiac rhythm disturbance	I49.9	Cardiac arrhythmia, unspecified
1650	786.50- Chest pain / discomfort	R07.9	Chest pain, unspecified
1655	250.90- Diabetic symptoms (hypoglycemia)	E13.64	Other specified diabetes mellitus with hypoglycemia
1660	994.80- Electrocution	T75.4	Electrocution
1665	780.60- Hyperthermia	R50.9	Fever, unspecified
1670	780.90- Hypothermia	T68	Hypothermia
1675	785.59- Hypovolemia / shock	R57.1	Hypovolemic shock
1680	987.90- Inhalation injury (toxic gas)	T59.94	Toxic effect of unspecified gases, fumes and vapors, undetermined
1685	798.99- Obvious death	R99	Ill-defined and unknown cause of mortality
1690	977.90- Poisoning / drug ingestion	T50.904	Poisoning by unspecified drugs, medicaments and biological substances, undetermined
1695	659.90- Pregnancy / OB delivery	O26.90	Pregnancy related conditions, unspecified, unspecified trimester
ICD-10 codes beginning with O are to be used on a mother's record. This mapping is used when patient age unit is not hours.			
1700	786.09- Respiratory distress	R06.00	Dyspnea, unspecified
1705	799.10- Respiratory arrest	R09.2	Respiratory arrest
1710	780.30- Seizure	R56.9	Unspecified convulsions
1715	959.90- Sexual assault / rape	T76.2	Sexual abuse, suspected
1720	987.90- Smoke inhalation	J70.5	Respiratory conditions due to smoke inhalation

1725	989.50- Stings / venomous bites	T63.94	Toxic effect of contact with unspecified venomous animal, undetermined
1730	436.00- Stroke / CVA	I63.9	Cerebral infarction, unspecified
1735	780.20- Syncope / fainting	R55	Syncope and collapse
1740	959.90- Traumatic injury	T14.90	Injury, unspecified
1745	623.80- Vaginal hemorrhage	N93.9	Abnormal uterine and vaginal bleeding, unspecified

*V2 Element***E09\_16 Provider's Secondary Impression**

ProvidersSecondaryImpression	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

**Comment****Mapping***V2 Pattern*

.=1830 and .././E06/E06\_14\_0/E06\_15=700

659.90- Pregnancy / OB delivery

ICD-10 codes beginning with P are to be used on a newborn's record. This mapping is used when patient age unit is hours.

1750 789.00- Abdominal pain / problems

1755 519.80- Airway obstruction

ICD-9 code 519.8 is Other diseases of respiratory system, not elsewhere classified. Mapping based on v2 label.

1760 995.30- Allergic reaction

1765 780.09- Altered level of consciousness

780.09 is Other alteration of consciousness. Mapping based on v2 label.

1770 312.90- Behavioral / psychiatric disorder

1775 427.50- Cardiac arrest

1780 427.90- Cardiac rhythm disturbance

1785 786.50- Chest pain / discomfort

1790 250.90- Diabetic symptoms (hypoglycemia)

1795 994.80- Electrocution

1800 780.60- Hyperthermia

1805 780.90- Hypothermia

1810 785.59- Hypovolemia / shock

1815 987.90- Inhalation injury (toxic gas)

1820 798.99- Obvious death

1825 977.90- Poisoning / drug ingestion

1830 659.90- Pregnancy / OB delivery

ICD-10 codes beginning with O are to be used on a mother's record. This mapping is used when patient age unit is not hours.

1835 786.09- Respiratory distress

1840 799.10- Respiratory arrest

1845 780.30- Seizure

1850 959.90- Sexual assault / rape

1855 987.90- Smoke inhalation

1860 989.50- Stings / venomous bites

*V3 Element***eSituation.12 Provider's Secondary Impressions**

ProvidersImpression	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

*V3 Replacement*

'P84'

Other problems with newborn

R10.9 Unspecified abdominal pain

T17.900 Unspecified foreign body in respiratory tract, part unspecified causing asphyxiation, initial encounter

T78.40 Allergy, unspecified

R41.82 Altered mental status, unspecified

F99 Mental disorder, not otherwise specified

I46.9 Cardiac arrest, cause unspecified

I49.9 Cardiac arrhythmia, unspecified

R07.9 Chest pain, unspecified

E13.64 Other specified diabetes mellitus with hypoglycemia

T75.4 Electrocution

R50.9 Fever, unspecified

T68 Hypothermia

R57.1 Hypovolemic shock

T59.94 Toxic effect of unspecified gases, fumes and vapors, undetermined

R99 Ill-defined and unknown cause of mortality

T50.904 Poisoning by unspecified drugs, medicaments and biological substances, undetermined

O26.90 Pregnancy related conditions, unspecified, unspecified trimester

R06.00 Dyspnea, unspecified

R09.2 Respiratory arrest

R56.9 Unspecified convulsions

T76.2 Sexual abuse, suspected

J70.5 Respiratory conditions due to smoke inhalation

T63.94 Toxic effect of contact with unspecified venomous animal, undetermined

1865	436.00- Stroke / CVA	I63.9	Cerebral infarction, unspecified
1870	780.20- Syncope / fainting	R55	Syncope and collapse
1875	959.90- Traumatic injury	T14.90	Injury, unspecified
1880	623.80- Vaginal hemorrhage	N93.9	Abnormal uterine and vaginal bleeding, unspecified

*V2 Element***E10\_01 Cause of Injury**

CauseOfInjury	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

**Comment****Mapping***V3 Element***elnjury.01 Cause of Injury**

icd10CodeInjury	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

*V2 Pattern*

.=1885 and ../E10\_02=2020 Bites (E906.0)

This mapping is used when E10\_02 Intent of the Injury is Intentional, Other (Assaulted).

.=9500 and ../E10\_02=2020 Aircraft Related Accident (E84X.0)

This mapping is used when E10\_02 Intent of the Injury is Intentional, Other (Assaulted).

.=9500 and ../E10\_02=2025 Aircraft Related Accident (E84X.0)

This mapping is used when E10\_02 Intent of the Injury is Intentional, Self.

.=9515 and ../E10\_02=2020 Chemical Poisoning (E86X.0)

This mapping is used when E10\_02 Intent of the Injury is Intentional, Other (Assaulted).

.=9515 and ../E10\_02=2025 Chemical Poisoning (E86X.0)

This mapping is used when E10\_02 Intent of the Injury is Intentional, Self.

.=9515 and ../E10\_02=2030 Chemical Poisoning (E86X.0)

This mapping is used when E10\_02 Intent of the Injury is Unintentional.

.=9525 and ../E10\_02=2020 Drowning (E910.0)

This mapping is used when E10\_02 Intent of the Injury is Intentional, Other (Assaulted).

.=9525 and ../E10\_02=2025 Drowning (E910.0)

This mapping is used when E10\_02 Intent of the Injury is Intentional, Self.

.=9530 and ../E10\_02=2020 Drug Posoning (E85X.0)

This mapping is used when E10\_02 Intent of the Injury is Intentional, Other (Assaulted).

.=9530 and ../E10\_02=2025 Drug Posoning (E85X.0)

This mapping is used when E10\_02 Intent of the Injury is Intentional, Self.

.=9530 and ../E10\_02=2030 Drug Posoning (E85X.0)

This mapping is used when E10\_02 Intent of the Injury is Unintentional.

.=9535 and ../E10\_02=2025 Electrocution (non-lightning) (E925.0)

This mapping is used when E10\_02 Intent of the Injury is Intentional, Self.

.=9540 and ../E10\_02=2025 Excessive Cold (E901.0)

This mapping is used when E10\_02 Intent of the Injury is Intentional, Self.

.=9550 and ../E10\_02=2020 Falls (E88X.0)

This mapping is used when E10\_02 Intent of the Injury is Intentional, Other (Assaulted).

*V3 Replacement*

'Y04.1XXA'

Assault by human bite, initial encounter

'Y08.81XA'

Assault by crashing of aircraft, initial encounter

'X83.0'

Intentional self-harm by crashing of aircraft

'T65.93XA'

Toxic effect of unspecified substance, assault, initial encounter

'T65.92XA'

Toxic effect of unspecified substance, intentional self-harm, initial encounter

'T65.91XA'

Toxic effect of unspecified substance, accidental (unintentional), initial encounter

'X92'

Assault by drowning and submersion

'X71'

Intentional self-harm by drowning and submersion

'T50.903A'

Poisoning by unspecified drugs, medicaments and biological substances, assault, initial encounter

'T50.902A'

Poisoning by unspecified drugs, medicaments and biological substances, intentional self-harm, initial encounter

'T50.901A'

Poisoning by unspecified drugs, medicaments and biological substances, accidental (unintentional), initial encounter

'X83.1XXA'

Intentional self-harm by electrocution, initial encounter

'X83.2XXA'

Intentional self-harm by exposure to extremes of cold, initial encounter

'Y01.XXXA'

Assault by pushing from high place, initial encounter

.=9550 and ../E10_02=2025	Falls (E88X.0)	'X80.XXXA'	Intentional self-harm by jumping from a high place, initial encounter
This mapping is used when E10_02 Intent of the Injury is Intentional, Self.			
.=9555 and ../E10_02=2020	Fire and Flames (E89X.0)	'X97.XXXA'	Assault by smoke, fire and flames, initial encounter
This mapping is used when E10_02 Intent of the Injury is Intentional, Other (Assaulted).			
.=9555 and ../E10_02=2025	Fire and Flames (E89X.0)	'X76.XXXA'	Intentional self-harm by smoke, fire and flames, initial encounter
This mapping is used when E10_02 Intent of the Injury is Intentional, Self.			
.=9585 and ../E10_02=2020	Mechanical Suffocation (E913.0)	'T71.193A'	Asphyxiation due to mechanical threat to breathing due to other causes, assault, initial encounter
This mapping is used when E10_02 Intent of the Injury is Intentional, Other (Assaulted). v3 supports additional specific values.			
.=9585 and ../E10_02=2025	Mechanical Suffocation (E913.0)	'T71.192A'	Asphyxiation due to mechanical threat to breathing due to other causes, intentional self-harm, initial encounter
This mapping is used when E10_02 Intent of the Injury is Intentional, Self. v3 supports additional specific values.			
.=9585 and ../E10_02=2030	Mechanical Suffocation (E913.0)	'T71.191A'	Asphyxiation due to mechanical threat to breathing due to other causes, accidental, initial encounter
This mapping is used when E10_02 Intent of the Injury is Unintentional. v3 supports additional specific values.			
.=9590 and ../E10_02=2020	Motor Vehicle non-traffic accident (E82X.0)	'Y03'	Assault by crashing of motor vehicle
This mapping is used when E10_02 Intent of the Injury is Intentional, Other (Assaulted).			
.=9590 and ../E10_02=2025	Motor Vehicle non-traffic accident (E82X.0)	'X82'	Intentional self-harm by crashing of motor vehicle
This mapping is used when E10_02 Intent of the Injury is Intentional, Self.			
.=9595 and ../E10_02=2020	Motor Vehicle traffic accident (E81X.0)	'Y03'	Assault by crashing of motor vehicle
This mapping is used when E10_02 Intent of the Injury is Intentional, Other (Assaulted).			
.=9595 and ../E10_02=2025	Motor Vehicle traffic accident (E81X.0)	'X82'	Intentional self-harm by crashing of motor vehicle
This mapping is used when E10_02 Intent of the Injury is Intentional, Self.			
.=9600 and ../E10_02=2020	Motorcycle Accident (E81X.0)	'Y03'	Assault by crashing of motor vehicle
This mapping is used when E10_02 Intent of the Injury is Intentional, Other (Assaulted).			
.=9600 and ../E10_02=2025	Motorcycle Accident (E81X.0)	'X82'	Intentional self-harm by crashing of motor vehicle
This mapping is used when E10_02 Intent of the Injury is Intentional, Self.			
.=9610 and ../E10_02=2020	Pedestrian Traffic Accident (E814.0)	'Y03.0XXA'	Assault by being hit or run over by motor vehicle, initial encounter
This mapping is used when E10_02 Intent of the Injury is Intentional, Other (Assaulted).			
.=9610 and ../E10_02=2025	Pedestrian Traffic Accident (E814.0)	'X81'	Intentional self-harm by jumping or lying in front of moving object
This mapping is used when E10_02 Intent of the Injury is Intentional, Self.			
.=9625 and ../E10_02=2020	Smoke Inhalation (E89X.2)	'T59.813A'	Toxic effect of smoke, assault, initial encounter
This mapping is used when E10_02 Intent of the Injury is Intentional, Other (Assaulted).			
.=9625 and ../E10_02=2025	Smoke Inhalation (E89X.2)	'T59.812A'	Toxic effect of smoke, intentional self-harm, initial encounter
This mapping is used when E10_02 Intent of the Injury is Intentional, Self.			
.=9625 and ../E10_02=2030	Smoke Inhalation (E89X.2)	'T59.811A'	Toxic effect of smoke, accidental (unintentional), initial encounter
This mapping is used when E10_02 Intent of the Injury is Unintentional.			
.=9640 and ../E10_02=2020	Struck by Blunt/Thrown Object (E968.2)	'Y00.XXXA'	Assault by blunt object, initial encounter
This mapping is used when E10_02 Intent of the Injury is Intentional, Other (Assaulted).			
.=9640 and ../E10_02=2025	Struck by Blunt/Thrown Object (E968.2)	'X79.XXXA'	Intentional self-harm by blunt object, initial encounter
This mapping is used when E10_02 Intent of the Injury is Intentional, Self.			
1885	Bites (E906.0)	W64	Exposure to nonvenomous animal NOS
Accidental bite by another person is also an appropriate v3 replacement. v3 supports additional specific values for animal bites.			
9500	Aircraft Related Accident (E84X.0)	V95.9	Unspecified aircraft accident injuring occupant
9505	Bicycle Accident (E826.0)	V19	Pedal cycle rider injured in other and unspecified transport accidents
9515	Chemical Poisoning (E86X.0)	T65.9	Toxic effect of unspecified substance

9520	Child Battering (E967.0)	T76.12	Child physical abuse, suspected
v2 Intent of the Injury is ignored and assumed to be Intentional, Other (Assaulted).			
9525	Drowning (E910.0)	W74	Unspecified cause of accidental drowning and submersion
9530	Drug Poisoning (E85X.0)	T50.90	Poisoning by, adverse effect of and underdosing of unspecified drugs, medicaments and biological substances
9535	Electrocution (non-lightning) (E925.0)	T75.4	Shock from electric current
9540	Excessive Cold (E901.0)	X31	Exposure to excessive natural cold
W93 Exposure to excessive cold of man-made origin is also an appropriate v3 replacement.			
9545	Excessive Heat (E900.0)	X30	Exposure to excessive natural heat
W92 Exposure to excessive heat of man-made origin is also an appropriate v3 replacement.			
9550	Falls (E88X.0)	W19	Unspecified fall
9555	Fire and Flames (E89X.0)	Y26	Exposure to smoke, fire and flames, undetermined intent
9560	Firearm Assault (E965.0)	X95.9	Assault by unspecified firearm discharge
v2 Intent of the Injury is ignored and assumed to be Intentional, Other (Assaulted).			
9565	Firearm Injury (accidental) (E985.0)	W34	Accidental discharge and malfunction from other and unspecified firearms and guns
v2 Intent of the Injury is ignored and assumed to be Unintentional.			
9570	Firearm self inflicted (E955.0)	X74.9	Intentional self-harm by unspecified firearm discharge
v2 Intent of the Injury is ignored and assumed to be Intentional, Self.			
9575	Lightning (E907.0)	T75.0	Effects of lightning
9580	Machinery Accidents (E919.0)	W31.9	Contact with unspecified machinery
9585	Mechanical Suffocation (E913.0)	T71.1	Asphyxiation due to mechanical threat to breathing
9590	Motor Vehicle non-traffic accident (E82X.0)	V89.0	Person injured in unspecified motor-vehicle accident, nontraffic
9595	Motor Vehicle traffic accident (E81X.0)	V89.2	Person injured in unspecified motor-vehicle accident, traffic
9600	Motorcycle Accident (E81X.0)	V29	Motorcycle rider injured in other and unspecified transport accidents
9605	Non-Motorized Vehicle Accident (E848.0)	V89.1	Person injured in unspecified nonmotor-vehicle accident, nontraffic
V89.3 Person injured in unspecified nonmotor-vehicle accident, traffic is also an appropriate v3 replacement.			
9610	Pedestrian Traffic Accident (E814.0)	V09.3	Pedestrian injured in unspecified traffic accident
9615	Radiation Exposure (E926.0)	W88	Exposure to ionizing radiation
W90 Exposure to other nonionizing radiation is also an appropriate v3 replacement.			
9620	Rape (E960.1)	T76.2	Sexual abuse, suspected
v2 Intent of the Injury is ignored and assumed to be Intentional, Other (Assaulted).			
9625	Smoke Inhalation (E89X.2)	T59.81	Toxic effect of smoke
9630	Stabbing/Cutting Accidental (E986.0)	Y28.9	Contact with unspecified sharp object, undetermined intent
Not precise. v2 Intent of the Injury is ignored and assumed to be Unintentional.			
9635	Stabbing/Cutting Assault (E966.0)	X99.9	Assault by unspecified sharp object
v2 Intent of the Injury is ignored and assumed to be Intentional, Other (Assaulted) unless it is Intentional, Self.			
9640	Struck by Blunt/Thrown Object (E968.2)	W20	Struck by thrown, projected or falling object
Y29 Contact with blunt object, undetermined intent is also an appropriate v3 replacement.			
9645	Venomous stings (plants, animals) (E905.0)	T63	Toxic effect of contact with venomous animals and plants
9650	Water Transport accident (E83X.0)	V94.9	Unspecified water transport accident



V2 Element

E10\_02 Intent of the Injury

IntentOfInjury	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

eCustomResults.01 Custom Data Element Result

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

Comment

Intent of the Injury is also used in some Cause of Injury mappings.

Mapping

V2 Pattern

2020	Intentional, Other (Assaulted)
2025	Intentional, Self
2030	Unintentional

V3 Replacement

2020	Intentional, Other (Assaulted)
2025	Intentional, Self
2030	Unintentional

*V2 Element***E10\_03 Mechanism of Injury**

MechanismOfInjury	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

*V3 Element***elnjury.02 Mechanism of Injury**

MechanismOfInjury	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : M

*V2 Pattern*

2035	Blunt
2040	Burn
2045	Other
2050	Penetrating

*V3 Replacement*

2902001	Blunt
2902003	Burn
2902005	Other
2902007	Penetrating

V2 Element

E10\_04 Vehicular Injury Indicators

VehicularInjuryIndicators	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

V3 Element

eCustomResults.01 Custom Data Element Result

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

Extends eInjury.04

Comment

Mapping

V2 Pattern

2055	Dash Deformity
2070	Fire
2090	Steering Wheel Deformity
2095	Windshield Spider/Star

V3 Replacement

2055	Dash Deformity
2070	Fire
2090	Steering Wheel Deformity
2095	Windshield Spider/Star

*V2 Element***E10\_04 Vehicular Injury Indicators**

VehicularInjuryIndicators	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

*V3 Element***elnjury.04 Vehicular, Pedestrian, or Other Injury Risk Factor**

VehicularInjuryIndicators	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

*V2 Pattern*

2060 DOA Same Vehicle

2065 Ejection

2075 Rollover/Roof Deformity

Not precise.

2080 Side Post Deformity

Not precise.

2085 Space Intrusion &gt; 1 foot

Not precise.

*V3 Replacement*

2904007 Crash Death in Same Passenger Compartment

2904009 Crash Ejection (partial or complete) from automobile

2904011 Crash Intrusion, including roof: &gt; 12 in. occupant site; &gt; 18 in. any site

2904011 Crash Intrusion, including roof: &gt; 12 in. occupant site; &gt; 18 in. any site

2904011 Crash Intrusion, including roof: &gt; 12 in. occupant site; &gt; 18 in. any site

V2 Element

E10\_05 Area of the Vehicle impacted by the collision

AreaOfVehicleImpact	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

V3 Element

eCustomResults.01 Custom Data Element Result

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

Extends elnjury.05

Comment

Mapping

V2 Pattern

2140Roll Over

V3 Replacement

2140Roll Over

*V2 Element*

E10\_05 Area of the Vehicle impacted by the collision

AreaOfVehicleImpact	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

*V3 Element*

elnjury.05 Main Area of the Vehicle Impacted by the Collision

AreaOfVehicleImpact	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

## Comment

v2 uses 8 enumerated locations plus "Roll Over". v3 uses a 1-12 "clock" sequence and does not support "Roll Over".

## Mapping

*V2 Pattern*

2100	Center Front
2105	Center Rear
2110	Left Front
2115	Left Rear
2120	Left Side
2125	Right Front
2130	Right Rear
2135	Right Side

*V3 Replacement*

12
6
10
8
9
2
4
3

*V2 Element***E10\_07 Position of Patient in the Seat of the Vehicle**

PositionOfPatientInSeat	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

## Mapping

*V2 Pattern*

../E10\_01=9600 and ../E10\_06=1

This mapping is used when E10\_01 Cause of Injury is Motorcycle Accident and E10\_06 Seat Row Location of Patient in Vehicle is 1.

../E10\_01=9600 and ../E10\_06=2

This mapping is used when E10\_01 Cause of Injury is Motorcycle Accident and E10\_06 Seat Row Location of Patient in Vehicle is 2.

../E10\_01=9600 and ../E10\_06&gt;=3 and ../E10\_06&lt;=49

This mapping is used when E10\_01 Cause of Injury is Motorcycle Accident and E10\_06 Seat Row Location of Patient in Vehicle is between 3 and 49.

../E10\_06=50

2906007 Passenger in other enclosed passenger or cargo area (non-trailing unit such as a bus, etc.) is also an appropriate v3 replacement.

.=2150 and ../E10\_06=1 Left (non-driver)

This mapping is used when E10\_06 Seat Row Location of Patient in Vehicle is 1.

.=2150 and ../E10\_06=2 Left (non-driver)

This mapping is used when E10\_06 Seat Row Location of Patient in Vehicle is 2.

.=2150 and ../E10\_06=3 Left (non-driver)

This mapping is used when E10\_06 Seat Row Location of Patient in Vehicle is 3.

.=2155 and ../E10\_06=1 Middle

This mapping is used when E10\_06 Seat Row Location of Patient in Vehicle is 1.

.=2155 and ../E10\_06=2 Middle

This mapping is used when E10\_06 Seat Row Location of Patient in Vehicle is 2.

.=2155 and ../E10\_06=3 Middle

This mapping is used when E10\_06 Seat Row Location of Patient in Vehicle is 3.

.=2160 and ../E10\_06=1 Right

This mapping is used when E10\_06 Seat Row Location of Patient in Vehicle is 1.

.=2160 and ../E10\_06=2 Right

This mapping is used when E10\_06 Seat Row Location of Patient in Vehicle is 2.

.=2160 and ../E10\_06=3 Right

This mapping is used when E10\_06 Seat Row Location of Patient in Vehicle is 3.

2145 Driver

2150 Left (non-driver)

This mapping is used when E10\_06 Seat Row Location of Patient in Vehicle is not present.

2155 Middle

This mapping is used when E10\_06 Seat Row Location of Patient in Vehicle is not present.

2160 Other

This mapping is used when E10\_06 Seat Row Location of Patient in Vehicle is not present. v3 supports additional specific values.

*V3 Element***elnjury.06 Location of Patient in Vehicle**

SeatRowLocation	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

*V3 Replacement*

2906001

Front Seat-Left Side (or motorcycle driver)

2906013

Second Seat-Left Side (or motorcycle passenger)

2906021

Third Row-Left Side (or motorcycle passenger)

2906009

Passenger in unenclosed passenger or cargo area (non-trailing unit such as a pickup, etc.)

2906001

Front Seat-Left Side (or motorcycle driver)

2906013

Second Seat-Left Side (or motorcycle passenger)

2906021

Third Row-Left Side (or motorcycle passenger)

2906003

Front Seat-Middle

2906015

Second Seat-Middle

2906023

Third Row-Middle

2906005

Front Seat-Right Side

2906017

Second Seat-Right Side

2906025

Third Row-Right Side

2906001

Front Seat-Left Side (or motorcycle driver)

2906029

Unknown

2906029

Unknown

2906029

Unknown

2165	Right	2906029	Unknown
This mapping is used when E10_06 Seat Row Location of Patient in Vehicle is not present. v3 supports additional specific values.			



*V2 Element***E10\_08 Use of Occupant Safety Equipment***V3 Element***elnjury.07 Use of Occupant Safety Equipment**

UseOfOccupantSafetyEquipment		UseOfOccupantSafetyEquipment	
Null Values	Yes	Null Values	Yes
Is Nillable	No	Is Nillable	Yes
Recurrence	0 : M	Recurrence	0 : M

Comment

Mapping

*V2 Pattern*

.=2185 and ../E10\_08=2210 Lap Belt

This mapping is used when both Lap Belt and Shoulder Belt are present.

.=2170 and ../E06/E06\_14\_0[(number(E06\_14)&lt;12 and E06\_15=710) or E06\_15=705 or E06\_15=700]

Child Restraint

This mapping is used when patient age is less than 1 year (or 12 months).

.=2170 and ../E06/E06\_14\_0[(number(E06\_14)&lt;2 and E06\_15=715) or (number(E06\_14)&lt;24 and E06\_15=710)]

Child Restraint

This mapping is used when patient age is less than 2 years (or 24 months) (but not less than 1 year or 12 months).

2170 Child Restraint

This mapping is used when patient age is not less than 2 years (or 24 months).

2175 Eye Protection

2180 Helmet Worn

2185 Lap Belt

This mapping is used when Shoulder Belt is not also present.

2187 None

2190 Other

2195 Personal Floatation Device

2200 Protective Clothing

2205 Protective Non-Clothing Gear

2210 Shoulder Belt

This mapping is used when Lap Belt is not also present.

*V3 Replacement*

2907027

Shoulder and Lap Belt Used

2907009

Infant Car Seat Rear Facing

2907007

Infant Car Seat Forward Facing

2907001

Child Booster Seat

2907003

Eye Protection

2907005

Helmet Worn

2907029

Lap Belt Only Used

2907015

None

2907017

Other

2907019

Personal Floatation Device

2907021

Protective Clothing

2907023

Protective Non-Clothing Gear

2907031

Shoulder Belt Only Used

*V2 Element***E10\_09 Airbag Deployment**

AirbagDeployment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

*V3 Element***elnjury.08 Airbag Deployment**

AirbagDeployment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

*V2 Pattern*

2215	No Airbag Present
2220	No Airbag Deployed
2225	Airbag Deployed Front
2230	Airbag Deployed Side
2235	Airbag Deployed Other (knee, airbelt,etc.)

*V3 Replacement*

2908009	No Airbag Present
2908007	No Airbag Deployed
2908001	Airbag Deployed Front
2908003	Airbag Deployed Side
2908005	Airbag Deployed Other (knee, air belt, etc.)

V2 Element

E10\_10 Height of Fall

HeightOfFall	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Element

elnjury.09 Height of Fall (feet)

HeightOfFall	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v2 allows 1 to 50,000. v3 allows 0 to 10,000.

Mapping

V2 Pattern

.<=10000  
otherwise

V3 Replacement

.  
10000

*V2 Element*

## E11\_01 Cardiac Arrest

CardiacArrest	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

*V2 Pattern*

0	No
2240	Yes, Prior to EMS Arrival
2245	Yes, After EMS Arrival

*V3 Element*

## eArrest.01 Cardiac Arrest

CardiacArrest	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

*V3 Replacement*

3001001	No
3001003	Yes, Prior to EMS Arrival
3001005	Yes, After EMS Arrival

*V2 Element***E11\_02 Cardiac Arrest Etiology**

CardiacArrestEtiology	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

*V3 Element***eArrest.02 Cardiac Arrest Etiology**

CardiacArrestEtiology	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

*V2 Pattern*

2250	Presumed Cardiac
2255	Trauma
2260	Drowning
2265	Respiratory
2270	Electrocution
2275	Other

v3 supports additional specific values.

*V3 Replacement*

3002001	Cardiac (Presumed)
3002015	Trauma
3002003	Drowning/Submersion
3002013	Respiratory/Asphyxia
3002007	Electrocution
3002011	Other

*V2 Element***E11\_03 Resuscitation Attempted**

ResuscitationAttempted	
Null Values	Yes
Is Nillable	No
Recurrence	1 : M

*V3 Element***eArrest.03 Resuscitation Attempted By EMS**

ResuscitationAttempted	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

Comment

Mapping

*V2 Pattern*

2280	Attempted Defibrillation
2285	Attempted Ventilation
2290	Initiated Chest Compressions
2295	Not Attempted-Considered Futile
2300	Not Attempted-DNR Orders
2305	Not Attempted-Signs of Circulation

*V3 Replacement*

3003001	Attempted Defibrillation
3003003	Attempted Ventilation
3003005	Initiated Chest Compressions
3003007	Not Attempted-Considered Futile
3003009	Not Attempted-DNR Orders
3003011	Not Attempted-Signs of Circulation

V2 Element

E11\_04 Arrest Witnessed by

ArrestWitnessedBy	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

2310	Witnessed by Healthcare Provider
2315	Witnessed by Lay Person
2320	Not Witnessed

V3 Element

eArrest.04 Arrest Witnessed By

ArrestWitnessedBy	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

V3 Replacement

3004005	Witnessed by Healthcare Provider
3004007	Witnessed by Lay Person
3004001	Not Witnessed

*V2 Element***E11\_05 First Monitored Rhythm of the Patient**

FirstMonitoredRhythm	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

*V3 Element***eArrest.11 First Monitored Arrest Rhythm of the Patient**

FirstMonitoredRhythm	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

*V2 Pattern*

2325	Asystole
2330	Bradycardia
Not supported in v3.	
2335	Normal Sinus Rhythm
Not supported in v3.	
2340	Other
Not supported in v3.	
2345	PEA
2350	Unknown AED Non-Shockable Rhythm
2355	Unknown AED Shockable Rhythm
2360	Ventricular Fibrillation
2365	Ventricular Tachycardia

*V3 Replacement*

3011001	Asystole
3011005	PEA
3011007	Unknown AED Non-Shockable Rhythm
3011009	Unknown AED Shockable Rhythm
3011011	Ventricular Fibrillation
3011013	Ventricular Tachycardia-Pulseless



*V2 Element***E11\_06 Any Return of Spontaneous Circulation**

ReturnOfSpontaneousCirculation	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment
---------

Mapping
---------

*V2 Pattern*

2370	Yes, Prior to ED Arrival Only
2375	Yes, Prior to ED Arrival and at the ED
2375	Yes, Prior to ED Arrival and at the ED
2380	No

*V3 Element***eArrest.12 Any Return of Spontaneous Circulation**

ReturnOfSpontaneousCirculation	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

*V3 Replacement*

3012005	Yes, Prior to Arrival at the ED
3012003	Yes, At Arrival at the ED
3012005	Yes, Prior to Arrival at the ED
3012001	No

V2 Element

E11\_07 Neurological Outcome at Hospital Discharge

NeurologicalOutcomeAtDischarge	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

2380	CPC 1 or 2	3013003 CPC 2 Moderate Cerebral Disability is also an appropriate v3 replacement.
2385	CPC 3 or 4	3013007 CPC 4 Coma or Vegetative State is also an appropriate v3 replacement.

V3 Element

eArrest.13 Neurological Outcome at Hospital Discharge

NeurologicalOutcomeAtDischarge	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

3013001	CPC 1 Good Cerebral Performance
3013005	CPC 3 Severe Cerebral Disability

*V2 Element***E11\_08 Estimated Time of Arrest Prior to EMS Arrival**

EstimatedTimeOfArrestPriorToEMS	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

*V3 Element***eCustomResults.01 Custom Data Element Result**

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

Comment
---------

Mapping
---------

*V2 Pattern*

2390	Greater Than 20 Minutes
2395	15-20 Minutes
2400	10-15 Minutes
2405	8-10 Minutes
2410	6-8 Minutes
2415	4-6 Minutes
2420	2-4 Minutes
2425	0-2 Minutes

*V3 Replacement*

2390	Greater Than 20 Minutes
2395	15-20 Minutes
2400	10-15 Minutes
2405	8-10 Minutes
2410	6-8 Minutes
2415	4-6 Minutes
2420	2-4 Minutes
2425	0-2 Minutes

V2 Element

E11\_09 Date/Time Resuscitation Discontinued

DateTime	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}:[0-9]{2}.

Mapping

V2 Pattern

.!="

V3 Element

eArrest.15 Date/Time Resuscitation Discontinued

DateTimeType	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

adjust-dateTime-to-timezone(.)

*V2 Element***E11\_10 Reason CPR Discontinued**

ReasonCPRDiscontinued	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

*V3 Element***eArrest.16 Reason CPR/Resuscitation Discontinued**

ReasonCPRDiscontinued	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

*V2 Pattern*

2430	DNR
2435	Medical Control Order
2440	Obvious Signs of Death
2445	Protocol/Policy Requirements Completed
2450	Return of Spontaneous Circulation (pulse or BP noted)

*V3 Replacement*

3016001	DNR
3016003	Medical Control Order
3016005	Obvious Signs of Death
3016009	Protocol/Policy Requirements Completed
3016011	Return of Spontaneous Circulation (pulse or BP noted)

*V2 Element***E11\_11 Cardiac Rhythm on Arrival at Destination**

CardiacRythmAtDestination	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

*V3 Element***eArrest.17 Cardiac Rhythm on Arrival at Destination**

CardiacRhythm	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

*V2 Pattern**V3 Replacement*

2455	12 Lead ECG-Anterior Ischemia	9901051	STEMI Anterior Ischemia
	9901023 Non-STEMI Anterior Ischemia is also an appropriate v3 replacement.		
2460	12 Lead ECG-Inferior Ischemia	9901053	STEMI Inferior Ischemia
	9901025 Non-STEMI Inferior Ischemia is also an appropriate v3 replacement.		
2465	12 Lead ECG-Lateral Ischemia	9901055	STEMI Lateral Ischemia
	9901027 Non-STEMI Lateral Ischemia is also an appropriate v3 replacement.		
2470	Agonal/Idioventricular	9901001	Agonal/Idioventricular
2475	Artifact	9901005	Artifact
2480	Asystole	9901003	Asystole
2485	Atrial Fibrillation/Flutter	9901007	Atrial Fibrillation
	9901009 Atrial Flutter is also an appropriate v3 replacement.		
2490	AV Block-1st Degree	9901011	AV Block-1st Degree
2495	AV Block-2nd Degree-Type 1	9901013	AV Block-2nd Degree-Type 1
2500	AV Block-2nd Degree-Type 2	9901015	AV Block-2nd Degree-Type 2
2505	AV Block-3rd Degree	9901017	AV Block-3rd Degree
2510	Junctional	9901019	Junctional
2515	Left Bundle Branch Block	9901021	Left Bundle Branch Block
2520	Normal Sinus Rhythm	9901047	Sinus Rhythm
2525	Other	9901031	Other
	v3 supports additional specific values.		
2530	Paced Rhythm	9901033	Paced Rhythm
2535	PEA	9901035	PEA
2540	Premature Atrial Contractions	9901037	Premature Atrial Contractions
2545	Premature Ventricular Contractions	9901039	Premature Ventricular Contractions
2550	Right Bundle Branch Block	9901041	Right Bundle Branch Block
2555	Sinus Arrhythmia	9901043	Sinus Arrhythmia
2560	Sinus Bradycardia	9901045	Sinus Bradycardia
2565	Sinus Tachycardia	9901049	Sinus Tachycardia
2570	Supraventricular Tachycardia	9901059	Supraventricular Tachycardia
2575	Torsades De Points	9901061	Torsades De Points
2580	Unknown AED Non-Shockable Rhythm	9901063	Unknown AED Non-Shockable Rhythm
2585	Unknown AED Shockable Rhythm	9901065	Unknown AED Shockable Rhythm

2590	Ventricular Fibrillation	9901067	Ventricular Fibrillation
2595	Ventricular Tachycardia	9901069	Ventricular Tachycardia (With Pulse)

9901071 Ventricular Tachycardia (Pulseless) is also an appropriate v3 replacement.

*V2 Element***E12\_01 Barriers to Patient Care**

BarriersToPatientCare	
Null Values	Yes
Is Nillable	No
Recurrence	1 : M

Comment
---------

Mapping
---------

*V3 Element***eHistory.01 Barriers to Patient Care**

BarriersToPatientCare	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

*V2 Pattern*

2600	Developmentally Impaired
2605	Hearing Impaired
2610	Language
2615	None
2620	Physically Impaired
2625	Physically Restrained
2630	Speech Impaired
2635	Unattended or Unsupervised (including minors)
2640	Unconscious

*V3 Replacement*

3101003	Developmentally Impaired
3101005	Hearing Impaired
3101007	Language
3101009	None Noted
3101015	Physically Impaired
3101017	Physically Restrained
3101023	Speech Impaired
3101025	Unattended or Unsupervised (including minors)
3101027	Unconscious



V2 Element

E12\_02 Sending Facility Medical Record Number

SendingFacilityRecordNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

eOutcome.04 External Report ID/Number

ExternalReportID	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v3 eOutcome.03 External Report ID/Number Type is set to 4303007 Hospital-Transferring.

Mapping

V2 Pattern

.

V3 Replacement

.

V2 Element

E12\_03 Destination Medical Record Number

DestinationMedicalRecordNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

v3 eOutcome.03 External Report ID/Number Type is set to 4303005 Hospital-Receiving.

Mapping

V2 Pattern

.

V3 Element

eOutcome.04 External Report ID/Number

ExternalReportID	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

V3 Replacement

.

V2 Element

E12\_04 First Name of Patient's Primary Practitioner

FirstName	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

V3 Element

eHistory.03 First Name of Patient's Practitioner

PersonFirstName	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

V2 Element

E12\_05 Middle Name of Patient's Primary Practitioner

MiddleInitialName	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eHistory.04 Middle Name/Initial of Patient's Practitioner

PersonMiddleName	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E12\_06 Last Name of Patient's Primary Practitioner

LastName	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

V3 Element

eHistory.02 Last Name of Patient's Practitioner

PersonLastName	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

*V2 Element***E12\_07 Advanced Directives**

AdvanceDirectives	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment
---------

Mapping
---------

*V3 Element***eHistory.05 Advance Directives**

AdvanceDirectives	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : M

*V2 Pattern*

2645	State/EMS DNR Form
2650	Other Healthcare DNR Form
2655	Living Will
2660	Family/Guardian request DNR (but no documentation)
2665	Other
2670	None

*V3 Replacement*

3105011	State EMS DNR or Medical Order Form
3105009	Other Healthcare Advanced Directive Form
3105003	Living Will
3105001	Family/Guardian request DNR (but no documentation)
3105007	Other
3105005	None

V2 Element

E12\_08 Medication Allergies

MedicationAllergies	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

V3 Element

eHistory.06 Medication Allergies

MedicationAllergies	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : M

Comment

v3 contains an optional CodeType attribute (9924001=ICD-10; 9924003=RxNorm).  
v2 allows length 2 to 30. v3 specifies a pattern and specifies the use of ICD-10 Z88.\* or RxNorm. To add mappings, add entries to v2v3ValueMappingMedicationAllergy.

Mapping

V2 Pattern		V3 Replacement	
Codeine		2670	Codeine
Sulfa drugs		Z88.2	Allergy status to sulfonamides status

*V2 Element***E12\_09 Environmental/Food Allergies**

EnvironmentalFoodAllergies	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

*V3 Element***eHistory.07 Environmental/Food Allergies**

snomed	
Null Values	No
Is Nillable	No
Recurrence	0 : M

**Comment**

In v3, a NEMSIS white paper advises to only use codes from the SNOMED "clinical findings" or "disorder" hierarchies.

**Mapping***V2 Pattern**V3 Replacement*

2675	Insect Sting	419199007	Allergy to substance
Not precise. 282094006 Allergic reaction to insect venom was considered, but it represents an actual reaction rather than a disposition of being allergic.			
2680	Food Allergy	414285001	Food allergy
2685	Latex	300916003	Latex allergy
2690	Chemical	419199007	Allergy to substance
Not precise. 419838000 Allergic reaction to chemical was considered, but it represents an actual reaction rather than a disposition of being allergic.			
2695	Other	609328004	Allergic disposition
v3 value is the parent of all other allergies in SNOMED, essentially meaning "unspecified allergy."			
2700	None	160244002	No known allergies
v3 value is from the SNOMED "situation" hierarchy, but it is on the suggested list.			



V2 Element

E12\_10 Medical/Surgical History

MedicalSurgicalHistory	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

V3 Element

eHistory.08 Medical/Surgical History

icd10MedSurge	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : M

Comment

v2 allows length 2 to 30 and specifies the use of ICD-9. v3 specifies a pattern and specifies the use of ICD-10. To add mappings, add entries to v2v3ValueMappingMedicalSurgicalHistory.

Mapping

V2 Pattern

401.9                      Unspecified essential hypertension

V3 Replacement

I10                              Essential (primary) hypertension

*V2 Element*

## E12\_11 Medical History Obtained From

MedicalHistoryObtainedFrom	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

*V2 Pattern*

2705	Bystander/Other
2710	Family
2715	Health Care Personnel
2720	None
Not supported in v3.	
2725	Patient

*V3 Element*

## eHistory.09 Medical History Obtained From

MedicalHistoryObtainedFrom	
Null Values	No
Is Nillable	No
Recurrence	0 : M

*V3 Replacement*

3109001	Bystander/Other
3109003	Family
3109005	Health Care Personnel
3109007	Patient

*V2 Element***E12\_12 Immunization History**

ImmunizationType	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

*V3 Element***eHistory.10 The Patient's Type of Immunization**

ImmunizationType	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

*V2 Pattern*

2730	Anthrax
2735	DPT (Diphtheria, Tetanus, Pertussis)
2740	Hemophilus Influenza B
2745	Hepatitis A
2750	Hepatitis B
2755	Influenza (Flu)

9910015 Influenza-H1N1 and 9910017 Influenza-Other are also appropriate v3 replacements.

2760	MMR (Measles, Mumps, Rubella)
2765	Polio = 8, Pneumococcal (pneumonia)

v2 combines two unrelated immunizations. Polio was chosen because it appears first within the v2 label and most of the other v2 immunization choices are related to childhood immunizations. 9910031 Pneumococcal (Pneumonia) is also an appropriate v3 replace

2770	Small Pox
2775	Tetanus
2780	Varicella

*V3 Replacement*

9910001	Anthrax
9910005	DPT / TDaP (Diphtheria, Pertussis, Tetanus)
9910007	Hemophilus Influenza B
9910009	Hepatitis A
9910011	Hepatitis B
9910019	Influenza-Seasonal (In past 12 months)

9910025	MMR (Measles, Mumps, Rubella)
9910033	Polio

9910041	Small Pox
9910043	Tetanus
9910049	Varicella (Chickenpox)

V2 Element

E12\_13 Immunization Date

ImmunizationDate	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eHistory.11 Immunization Year

Year	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E12\_14 Current Medications

CurrentMedicationName	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

v2 allows length 2 to 30. v3 allows length 2 to 7 and specifies the use of RxNorm. To add mappings, add entries to v2v3ValueMappingCurrentMedication.

Mapping

V2 Pattern

Oxygen

V3 Element

eHistory.12 Current Medications

Medication	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

7806

Oxygen

V2 Element

E12\_15 Current Medication Dose

CurrentMedicationDose	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eHistory.13 Current Medication Dose

CurrentMedicationDose	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

*V2 Element***E12\_16 Current Medication Dosage Unit**

CurrentMedicationDosageUnit	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

*V3 Element***eHistory.14 Current Medication Dosage Unit**

CurrentMedicationDosageUnit	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

*V2 Pattern*

2785	GMS
2790	Inches
2795	IU
2800	KVO (TKO)
2805	L/MIN
2810	LITERS
2815	LPM
2820	MCG
2825	MCG/KG/MIN
2830	MEQ
2835	MG
2840	MG/KG/MIN
2845	ML
2850	ML/HR
2855	Other
2860	Puffs

*V3 Replacement*

3114003	Grams (gms)
3114007	Inches (in)
3114009	International Units (IU)
3114011	Keep Vein Open (kvo)
3114013	Liters Per Minute (l/min [fluid])
3114015	Liters (l)
3114017	Liters Per Minute (LPM [gas])
3114019	Micrograms (mcg)
3114021	Micrograms per Kilogram per Minute (mcg/kg/min)
3114025	Milliequivalents (mEq)
3114029	Milligrams (mg)
3114033	Milligrams per Kilogram Per Minute (mg/kg/min)
3114037	Milliliters (ml)
3114039	Milliliters per Hour (ml/hr)
3114041	Other
3114043	Puffs

*V2 Element***E12\_17 Current Medication Administration Route**

CurrentMedicationAdministrationRoute	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

*V3 Element***eHistory.15 Current Medication Administration Route**

CurrentMedicationAdministrationRoute	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

*V2 Pattern*

2865	Endotracheal tube
2870	Gastronomy tube
2875	Inhalation
2880	Intramuscular
2885	Intranasal
2890	Intraocular
2891	Intraosseous
2895	Intravenous
2900	Nasal
2905	Nasal prongs
2910	Nasogastric
2915	Ophthalmic
2920	Oral
2925	Other/miscellaneous
2930	Otic
2935	Re-breather mask
2940	Rectal
2945	Subcutaneous
2950	Sublingual
2955	Topical
2960	Tracheostomy
2965	Transdermal
2970	Urethral
2975	Ventimask
2980	Wound

*V3 Replacement*

9927005	Endotracheal Tube (ET)
9927007	Gastrostomy Tube
9927009	Inhalation
9927015	Intramuscular (IM)
9927017	Intranasal
9927019	Intraocular
9927021	Intraosseous (IO)
9927023	Intravenous (IV)
9927017	Intranasal
9927025	Nasal Cannula
9927027	Nasogastric
9927033	Ophthalmic
9927035	Oral
9927037	Other/miscellaneous
9927039	Otic
9927041	Re-breather mask
9927043	Rectal
9927045	Subcutaneous
9927047	Sublingual
9927049	Topical
9927051	Tracheostomy
9927053	Transdermal
9927055	Urethral
9927057	Ventimask
9927059	Wound



V2 Element

E12\_18 Presence of Emergency Information Form

YesNoValues	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

0	No
1	Yes

V3 Element

eHistory.16 Presence of Emergency Information Form

YesNoValues	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

9923001	No
9923003	Yes

*V2 Element***E12\_19 Alcohol/Drug Use Indicators**

AlcoholDrugUseIndicators	
Null Values	Yes
Is Nillable	No
Recurrence	1 : M

Comment

Mapping

*V3 Element***eHistory.17 Alcohol/Drug Use Indicators**

AlcoholDrugUseIndicators	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

*V2 Pattern*

.=3000 and ../E12\_19=2995 and not(../E12\_19=2985 or ../E12\_19=2990)

Alcohol and/or Drug Paraphernalia at Scene

This mapping is used when other indicators suggest the use of drugs but not alcohol.

.=3000 and not(../E12\_19=2995)

Alcohol and/or Drug Paraphernalia at Scene

This mapping is used when other indicators do not suggest the use of drugs.

2985 Smell of Alcohol on Breath

2990 Patient Admits to Alcohol Use

2995 Patient Admits to Drug Use

3000 Alcohol and/or Drug Paraphernalia at Scene

This mapping is used when other indicators suggest the use of both alcohol and other drugs.

3000 Alcohol and/or Drug Paraphernalia at Scene

This mapping is used when other indicators suggest the use of both alcohol and other drugs.

3001 None

*V3 Replacement*

3117003

Drug Paraphernalia at Scene

3117001

Alcohol Containers/Paraphernalia at Scene

3117011

Smell of Alcohol on Breath

3117005

Patient Admits to Alcohol Use

3117007

Patient Admits to Drug Use

3117001

Alcohol Containers/Paraphernalia at Scene

3117003

Drug Paraphernalia at Scene

&lt;xsl:attribute name="xsi:nil"&gt;true&lt;/xsl:attribute&gt;&lt;xsl:attribute name="PN"&gt;8801015&lt;/xsl:attribute&gt;

None Reported

V2 Element

E12\_20 Pregnancy

YesNoValues	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

0	No
1	Yes
v3 supports additional specific values.	

V3 Element

eHistory.18 Pregnancy

Pregnancy	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

3118001	No
3118011	Yes, Weeks Unknown

V2 Element

E13\_01 Run Report Narrative

RunReportNarrative	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eNarrative.01 Patient Care Report Narrative

PCRNarrative	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E14\_01 Date/Time Vital Signs Taken

DateTime	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Element

eVitals.01 Date/Time Vital Signs Taken

DateTimeType	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}:[0-9]{2}.

Mapping

V2 Pattern

.!="

V3 Replacement

adjust-dateTime-to-timezone(.)

V2 Element

E14\_02 Obtained Prior to this Units EMS Care

YesNoValues	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

0	No
1	Yes

V3 Element

eVitals.02 Obtained Prior to this Unit's EMS Care

YesNoValues	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

9923001	No
9923003	Yes

*V2 Element***E14\_03 Cardiac Rhythm**

CardiacRhythm	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

*V3 Element***eVitals.03 Cardiac Rhythm / Electrocardiography (ECG)**

CardiacRhythm	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

*V2 Pattern**V3 Replacement*

3005	12 Lead ECG-Anterior Ischemia	9901051	STEMI Anterior Ischemia
	9901023 Non-STEMI Anterior Ischemia is also an appropriate v3 replacement.		
3010	12 Lead ECG-Inferior Ischemia	9901053	STEMI Inferior Ischemia
	9901025 Non-STEMI Inferior Ischemia is also an appropriate v3 replacement.		
3015	12 Lead ECG-Lateral Ischemia	9901055	STEMI Lateral Ischemia
	9901027 Non-STEMI Lateral Ischemia is also an appropriate v3 replacement.		
3020	Agonal/Idioventricular	9901001	Agonal/Idioventricular
3025	Artifact	9901005	Artifact
3030	Asystole	9901003	Asystole
3035	Atrial Fibrillation/Flutter	9901007	Atrial Fibrillation
	9901009 Atrial Flutter is also an appropriate v3 replacement.		
3040	AV Block-1st Degree	9901011	AV Block-1st Degree
3045	AV Block-2nd Degree-Type 1	9901013	AV Block-2nd Degree-Type 1
3050	AV Block-2nd Degree-Type 2	9901015	AV Block-2nd Degree-Type 2
3055	AV Block-3rd Degree	9901017	AV Block-3rd Degree
3060	Junctional	9901019	Junctional
3065	Left Bundle Branch Block	9901021	Left Bundle Branch Block
3070	Normal Sinus Rhythm	9901047	Sinus Rhythm
3075	Other	9901031	Other
	v3 supports additional specific values.		
3080	Paced Rhythm	9901033	Paced Rhythm
3085	PEA	9901035	PEA
3090	Premature Atrial Contractions	9901037	Premature Atrial Contractions
3095	Premature Ventricular Contractions	9901039	Premature Ventricular Contractions
3100	Right Bundle Branch Block	9901041	Right Bundle Branch Block
3105	Sinus Arrhythmia	9901043	Sinus Arrhythmia
3110	Sinus Bradycardia	9901045	Sinus Bradycardia
3115	Sinus Tachycardia	9901049	Sinus Tachycardia
3120	Supraventricular Tachycardia	9901059	Supraventricular Tachycardia
3125	Torsades De Points	9901061	Torsades De Points
3130	Unknown AED Non-Shockable Rhythm	9901063	Unknown AED Non-Shockable Rhythm
3135	Unknown AED Shockable Rhythm	9901065	Unknown AED Shockable Rhythm

3140	Ventricular Fibrillation	9901067	Ventricular Fibrillation
3145	Ventricular Tachycardia	9901069	Ventricular Tachycardia (With Pulse)

9901071 Ventricular Tachycardia (Pulseless) is also an appropriate v3 replacement.



V2 Element

E14\_04 SBP (Systolic Blood Pressure)

SBP	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

number(<90

V3 Element

elnjury.03 Trauma Center Criteria

TraumaCenterCriteria	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

V3 Replacement

2903019                      Systolic Blood Pressure <90 mmHg

V2 Element

E14\_04 SBP (Systolic Blood Pressure)

SBP	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eVitals.06 SBP (Systolic Blood Pressure)

SBP	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

.

*V2 Element*

## E14\_05 DBP (Diastolic Blood Pressure)

DBP	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

## Comment

v2 allows 0 to 300. v3 allows 0 or 10-500 but not 1-9.

## Mapping

*V2 Pattern*

number(.)>0 and number(.)<10

number(.)

*V3 Element*

## eVitals.07 DBP (Diastolic Blood Pressure)

DBP	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

*V3 Replacement*

10

xs:integer(.)

*V2 Element***E14\_06 Method of Blood Pressure Measurement**

MethodOfBloodPressure	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

*V3 Element***eVitals.08 Method of Blood Pressure Measurement**

BloodPressureMethod	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment
---------

Mapping
---------

*V2 Pattern*

3150	Arterial Line
3155	Automated Cuff
3160	Manual Cuff
3165	Palpated Cuff
3170	Venous Line

*V3 Replacement*

3308001	Arterial Line
3308005	Cuff-Automated
3308007	Cuff-Manual Auscultated
3308009	Cuff-Manual Palpated Only
3308011	Venous Line

V2 Element

E14\_07 Pulse Rate

PulseRate	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

V3 Element

eVitals.10 Heart Rate

HeartRate	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

V2 Element

E14\_08 Electronic Monitor Rate

ElectricMonitorRate	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

When E14\_07 is nil or missing.

Mapping

V2 Pattern

.

V3 Element

eVitals.10 Heart Rate

HeartRate	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

.

V2 Element

E14\_09 Pulse Oximetry

PulseOximetry	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eVitals.12 Pulse Oximetry

PulseOximetry	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

.

*V2 Element*

## E14\_10 Pulse Rhythm

PulseRhythm	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

*V3 Element*

## eVitals.13 Pulse Rhythm

PulseRhythm	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

*V2 Pattern*

3175	Regular
3180	Irregular

*V3 Replacement*

3313003	Regular
3313001	Irregularly Irregular

3313005 Regularly Irregular is also an appropriate v3 replacement.



*V2 Element***E14\_11 Respiratory Rate***V3 Element***elnjury.03 Trauma Center Criteria**

RespiratoryRate		TraumaCenterCriteria	
Null Values	No	Null Values	Yes
Is Nillable	Yes	Is Nillable	Yes
Recurrence	0 : 1	Recurrence	1 : M

**Comment****Mapping***V2 Pattern*

number(.)&lt;10

*V3 Replacement*

2903017

Respiratory Rate &lt;10 or &gt;29 breaths per minute (&lt;20 in infants aged &lt;1 year) or need for ventilatory support

number(.)&lt;20 and .././E06/E06\_14\_0[(number(E06\_14)&lt;2 and E06\_15=715) or (number(E06\_14)&lt;24 and E06\_15=710)]

2903017

Respiratory Rate &lt;10 or &gt;29 breaths per minute (&lt;20 in infants aged &lt;1 year) or need for ventilatory support

This mapping is used when patient age is less than 1 year (or 12 months).

number(.)&gt;29

2903017

Respiratory Rate &lt;10 or &gt;29 breaths per minute (&lt;20 in infants aged &lt;1 year) or need for ventilatory support

V2 Element

E14\_11 Respiratory Rate

RespiratoryRate	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eVitals.14 Respiratory Rate

RespiratoryRate	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

.

*V2 Element***E14\_12 Respiratory Effort**

RespiratoryEffort	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

*V3 Element***eVitals.15 Respiratory Effort**

RespiratoryEffort	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

*V2 Pattern*

3185	Normal
3190	Labored
3195	Fatigued
Not precise.	
3200	Absent
3205	Not Assessed

Not supported in v3.

*V3 Replacement*

3315007	Normal
3315003	Labored
3315013	Weak/Agonal
3315001	Apneic

V2 Element

E14\_13 Carbon Dioxide

CO2	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eVitals.16 End Tidal Carbon Dioxide (ETCO2)

CO2	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

.

V2 Element

E14\_14 Blood Glucose Level

BloodGlucoseLevel	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eVitals.18 Blood Glucose Level

BloodGlucoseLevel	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

.

V2 Element

E14\_15 Glasgow Coma Score-Eye

GCSEye	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

Mapping

V2 Pattern  
number(.)

V3 Element

eVitals.19 Glasgow Coma Score-Eye

GlasgowComaScoreEyes	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement  
xs:integer(.)

V2 Element

E14\_16 Glasgow Coma Score-Verbal

GCSVerbal	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

Mapping

V2 Pattern  
number(.)

V3 Element

eVitals.20 Glasgow Coma Score-Verbal

GlasgowComaScoreVerbal	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement  
xs:integer(.)

V2 Element

E14\_17 Glasgow Coma Score-Motor

GCSMotor	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

number(.)

V3 Element

eVitals.21 Glasgow Coma Score-Motor

GlasgowComaScoreMotor	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

xs:integer(.)



*V2 Element***E14\_18 Glasgow Coma Score-Qualifier**

GCSQualifier	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

*V3 Element***eVitals.22 Glasgow Coma Score-Qualifier**

GCSScoreQualifier	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

Comment
---------

Mapping
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*V2 Pattern*

3210	Initial GCS has legitimate values without interventions such as intubation and sedation
3215	Patient Chemically Sedated
3322005 Patient Chemically Paralyzed may also be an appropriate v3 replacement.	
3220	Patient Intubated
3225	Patient Intubated and Chemically Paralyzed
3225	Patient Intubated and Chemically Paralyzed

*V3 Replacement*

3322003	Initial GCS has legitimate values without interventions such as intubation and sedation
3322007	Patient Chemically Sedated
3322009	Patient Intubated
3322005	Patient Chemically Paralyzed
3322009	Patient Intubated

V2 Element

E14\_19 Total Glasgow Coma Score

TotalGCS	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

number(.)>=3 and number(.)<=13

V3 Element

elnjury.03 Trauma Center Criteria

TraumaCenterCriteria	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

V3 Replacement

2903007Glasgow Coma Score <= 13

V2 Element

E14\_19 Total Glasgow Coma Score

TotalGCS	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

v2 allows 1 to 15. v3 allows 3 to 15. External standard allows 3 to 15, so 1 and 2 are meaningless values.

Mapping

V2 Pattern

number(.)>=3

V3 Element

eVitals.23 Total Glasgow Coma Score

TotalGCS	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E14\_20 Temperature

BodyTemperature	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

v2 allows 2 digits after the decimal point. v3 allows 1 digit after the decimal point.

Mapping

V2 Pattern

number(.)

V3 Element

eVitals.24 Temperature

BodyTemperature	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

round(.\*10) div 10

*V2 Element*

## E14\_21 Temperature Method

TemperatureMethod	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

*V3 Element*

## eVitals.25 Temperature Method

MethodBodyTemp	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

*V2 Pattern*

3230	Axillary
3235	Oral
3240	Rectal
3245	Tympanic
3250	Urinary Catheter

*V3 Replacement*

3325001	Axillary
3325007	Oral
3325009	Rectal
3325013	Tympanic
3325015	Urinary Catheter

V2 Element

E14\_22 Level of Responsiveness

LevelOfResponsiveness	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

3255	Alert
3260	Verbal
3265	Painful
3270	Unresponsive

V3 Element

eVitals.26 Level of Responsiveness (AVPU)

PatientsHighestLevelResponsiveness	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

3326001	Alert
3326003	Verbal
3326005	Painful
3326007	Unresponsive

V2 Element

E14\_23 Pain Scale

PainScale	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eVitals.27 Pain Scale Score

PainScale	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

.

*V2 Element***E14\_24 Stroke Scale**

StrokeScale	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

*V3 Element***eVitals.29 Stroke Scale Score**

StrokeScale	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

Mapping

*V2 Pattern*

3275	Cincinnati Stroke Scale Negative
3280	Cincinnati Stroke Scale Non-conclusive
3285	Cincinnati Stroke Scale Positive
3290	LA Stroke Scale Negative
3295	LA Stroke Scale Non-conclusive
3300	LA Stroke Scale Positive

*V3 Replacement*

3329001	Negative
3329003	Non-Conclusive
3329005	Positive
3329001	Negative
3329003	Non-Conclusive
3329005	Positive



*V2 Element***E14\_24 Stroke Scale**

StrokeScale	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

*V3 Element***eVitals.30 Stroke Scale Type**

TypeOfStrokeScale	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment
---------

Mapping
---------

*V2 Pattern*

3275	Cincinnati Stroke Scale Negative
3280	Cincinnati Stroke Scale Non-conclusive
3285	Cincinnati Stroke Scale Positive
3290	LA Stroke Scale Negative
3295	LA Stroke Scale Non-conclusive
3300	LA Stroke Scale Positive

*V3 Replacement*

3330001	Cincinnati
3330001	Cincinnati
3330001	Cincinnati
3330003	Los Angeles
3330003	Los Angeles
3330003	Los Angeles

*V2 Element***E14\_25 Thrombolytic Screen**

ThrombolyticScreen	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

*V3 Element***eVitals.31 Reperfusion Checklist**

ReperfusionChecklist	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

*V2 Pattern*

3305	Definite Contraindications to Thrombolytic use
3310	No Contraindications to Thrombolytic Use
3315	Possible Contraindications to Thrombolytic Use

*V3 Replacement*

3331001	Definite Contraindications to Thrombolytic Use
3331003	No Contraindications to Thrombolytic Use
3331005	Possible Contraindications to Thrombolytic Use

V2 Element

E14\_26 APGAR

APGAR	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eVitals.32 APGAR

APGAR	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E14\_27 Revised Trauma Score

RTS	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eVitals.33 Revised Trauma Score

RTS	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E14\_28 Pediatric Trauma Score

PediatricTraumaScore	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eCustomResults.01 Custom Data Element Result

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

V3 Replacement

.

*V2 Element***E15\_01 NHTSA Injury Matrix External/Skin**

NHTSAInjuryMatrix	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

*V3 Element***eCustomResults.01 Custom Data Element Result**

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

Extends eExam.04

**Comment****Mapping***V2 Pattern*

3320	Amputation
3325	Bleeding Controlled
3330	Bleeding Uncontrolled
3335	Burn
3340	Crush
3345	Dislocation Fracture
3350	Gunshot
3355	Laceration
3360	Pain without swelling/bruising
3365	Puncture/stab
3370	Soft Tissue Swelling/bruising

*V3 Replacement*

3320	Amputation
3325	Bleeding Controlled
3330	Bleeding Uncontrolled
3335	Burn
3340	Crush
3345	Dislocation Fracture
3350	Gunshot
3355	Laceration
3360	Pain without swelling/bruising
3365	Puncture/stab
3370	Soft Tissue Swelling/bruising

*V2 Element***E15\_02 NHTSA Injury Matrix Head**

NHTSAInjuryMatrix	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

*V3 Element***eExam.05 Head Assessment**

HeadAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

*V2 Pattern**V3 Replacement*

3320	Amputation	3505017	Decapitation
3325	Bleeding Controlled	3505005	Bleeding Controlled
3330	Bleeding Uncontrolled	3505007	Bleeding Uncontrolled
3335	Burn	3505013	Burn-Redness
3505009 Burn-Blistering, 3505011 Burn-Charring, and 3505015 Burn-White/Waxy are also appropriate v3 replacements.			
3340	Crush	3505047	Crush Injury
3345	Dislocation Fracture		
Not supported in v3.			
3350	Gunshot	3505045	Gunshot Wound
3355	Laceration	3505029	Laceration
3360	Pain without swelling/bruising	3505037	Pain
3365	Puncture/stab	3505039	Puncture/Stab Wound
3370	Soft Tissue Swelling/bruising	3505049	Swelling
3370	Soft Tissue Swelling/bruising	3505051	Contusion

*V2 Element***E15\_03 NHTSA Injury Matrix Face***V3 Element***eExam.06 Face Assessment**

NHTSAInjuryMatrix		FaceAssessment	
Null Values	Yes	Null Values	No
Is Nillable	No	Is Nillable	No
Recurrence	0 : M	Recurrence	0 : M
Comment			
Mapping			

*V2 Pattern**V3 Replacement*

3320	Amputation		
	Not supported in v3.		
3325	Bleeding Controlled	3506007	Bleeding Controlled
3330	Bleeding Uncontrolled	3506009	Bleeding Uncontrolled
3335	Burn	3506015	Burn-Redness
	3506011 Burn-Blistering, 3506013 Burn-Charring, and 3506017 Burn-White/Waxy are also appropriate v3 replacements.		
3340	Crush	3506049	Crush Injury
3345	Dislocation Fracture		
	Not supported in v3.		
3350	Gunshot	3506047	Gunshot Wound
3355	Laceration	3506031	Laceration
3360	Pain without swelling/bruising	3506039	Pain
3365	Puncture/stab	3506041	Puncture/Stab Wound
3370	Soft Tissue Swelling/bruising	3506053	Swelling
3370	Soft Tissue Swelling/bruising	3506055	Contusion



*V2 Element***E15\_04 NHTSA Injury Matrix Neck***V3 Element***eExam.07 Neck Assessment**

NHTSAInjuryMatrix		NeckAssessment	
Null Values	Yes	Null Values	No
Is Nillable	No	Is Nillable	No
Recurrence	0 : M	Recurrence	0 : M

Comment

Mapping

*V2 Pattern**V3 Replacement*

3320	Amputation	3507017	Decapitation
3325	Bleeding Controlled	3507005	Bleeding Controlled
3330	Bleeding Uncontrolled	3507007	Bleeding Uncontrolled
3335	Burn	3507013	Burn-Redness
3507009 Burn-Blistering, 3507011 Burn-Charring, and 3507015 Burn-White/Waxy are also appropriate v3 replacements.			
3340	Crush	3507051	Crush Injury
3345	Dislocation Fracture		
Not supported in v3.			
3350	Gunshot	3507049	Gunshot Wound
3355	Laceration	3507027	Laceration
3360	Pain without swelling/bruising	3507033	Pain
3365	Puncture/stab	3507035	Puncture/Stab Wound
3370	Soft Tissue Swelling/bruising	3507053	Swelling
3370	Soft Tissue Swelling/bruising	3507055	Contusion

*V2 Element***E15\_05 NHTSA Injury Matrix Thorax***V3 Element***eExam.08 Chest/Lungs Assessment**

NHTSAInjuryMatrix		ChestLungsAssessment	
Null Values	Yes	Null Values	No
Is Nillable	No	Is Nillable	No
Recurrence	0 : M	Recurrence	0 : M
Comment			
Mapping			

*V2 Pattern**V3 Replacement*

3320	Amputation		
	Not supported in v3.		
3325	Bleeding Controlled	3508007	Bleeding Controlled
3330	Bleeding Uncontrolled	3508009	Bleeding Uncontrolled
3335	Burn	3508029	Burn-Redness
	3508025 Burn-Blistering, 3508027 Burn-Charring, and 3508031 Burn-White/Waxy are also appropriate v3 replacements.		
3340	Crush	3508033	Crush Injury
3345	Dislocation Fracture		
	Not supported in v3.		
3350	Gunshot	3508097	Gunshot Wound
3355	Laceration	3508051	Laceration
3360	Pain without swelling/bruising	3508057	Pain
	v3 supports additional specific values.		
3365	Puncture/stab	3508063	Puncture/Stab Wound
3370	Soft Tissue Swelling/bruising	3508099	Swelling
3370	Soft Tissue Swelling/bruising	3508101	Contusion

*V2 Element***E15\_06 NHTSA Injury Matrix Abdomen***V3 Element***eExam.11 Abdomen Assessment**

NHTSAInjuryMatrix		AbdomenAssessment	
Null Values	Yes	Null Values	No
Is Nillable	No	Is Nillable	No
Recurrence	0 : M	Recurrence	0 : M
Comment			
Mapping			

*V2 Pattern**V3 Replacement*

3320	Amputation		
	Not supported in v3.		
3325	Bleeding Controlled	3511005	Bleeding Controlled
3330	Bleeding Uncontrolled	3511007	Bleeding Uncontrolled
3335	Burn	3511017	Burn-Redness
	3511013 Burn-Blistering, 3511015 Burn-Charring, and 3511019 Burn-White/Waxy are also appropriate v3 replacements.		
3340	Crush	3511055	Crush Injury
3345	Dislocation Fracture		
	Not supported in v3.		
3350	Gunshot	3511053	Gunshot Wound
3355	Laceration	3511031	Laceration
3360	Pain without swelling/bruising	3511041	Pain
3365	Puncture/stab	3511045	Puncture/Stab Wound
3370	Soft Tissue Swelling/bruising	3511057	Swelling
3370	Soft Tissue Swelling/bruising	3511059	Contusion

*V2 Element***E15\_07 NHTSA Injury Matrix Spine**

NHTSAInjuryMatrix	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

*V3 Element***eExam.14 Back and Spine Assessment**

BackAndSpineAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

*V2 Pattern**V3 Replacement*

3320	Amputation		
	Not supported in v3.		
3325	Bleeding Controlled	3514005	Bleeding Controlled
3330	Bleeding Uncontrolled	3514007	Bleeding Uncontrolled
3335	Burn	3514013	Burn-Redness
	3514009 Burn-Blistering, 3514011 Burn-Charring, and 3514015 Burn-White/Waxy are also appropriate v3 replacements.		
3340	Crush	3514049	Crush Injury
3345	Dislocation Fracture		
	Not supported in v3.		
3350	Gunshot	3514047	Gunshot Wound
3355	Laceration	3514025	Laceration
3360	Pain without swelling/bruising	3514031	Pain
	v3 supports additional specific values.		
3365	Puncture/stab	3514035	Puncture/Stab Wound
3370	Soft Tissue Swelling/bruising	3514051	Swelling
3370	Soft Tissue Swelling/bruising	3514053	Contusion

*V2 Element***E15\_08 NHTSA Injury Matrix Upper Extremities***V3 Element***eExam.16 Extremities Assessment**

NHTSAInjuryMatrix		ExtremitiesAssessment	
Null Values	Yes	Null Values	No
Is Nillable	No	Is Nillable	No
Recurrence	0 : M	Recurrence	0 : M
Comment			

v3 eExam.15 Extremity Assessment Finding Location is not set.

**Mapping***V2 Pattern**V3 Replacement*

3320	Amputation	3516003	Amputation-Acute
3516005 Amputation-Previous is also an appropriate v3 replacement.			
3325	Bleeding Controlled	3516009	Bleeding Controlled
3330	Bleeding Uncontrolled	3516011	Bleeding Uncontrolled
3335	Burn	3516017	Burn-Redness
3516013 Burn-Blistering, 3516015 Burn-Charring, and 3516019 Burn-White/Waxy are also appropriate v3 replacements.			
3340	Crush	3516023	Crush Injury
3345	Dislocation Fracture	3516027	Dislocation
3516033 Fracture-Closed and 3516035 Fracture-Open are also appropriate v3 replacements.			
3350	Gunshot	3516077	Gunshot Wound
3355	Laceration	3516041	Laceration
3360	Pain without swelling/bruising	3516053	Pain
3365	Puncture/stab	3516063	Puncture/Stab Wound
3370	Soft Tissue Swelling/bruising	3516079	Swelling
3370	Soft Tissue Swelling/bruising	3516081	Contusion

*V2 Element***E15\_09 NHTSA Injury Matrix Pelvis**

NHTSAInjuryMatrix	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

*V3 Element***eExam.12 Pelvis/Genitourinary Assessment**

GUAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

*V2 Pattern**V3 Replacement*

3320	Amputation		
	Not supported in v3.		
3325	Bleeding Controlled	3512005	Bleeding Controlled
3330	Bleeding Uncontrolled	3512007	Bleeding Uncontrolled
3335	Burn	3512019	Burn-Redness
	3512017 Burn-Blistering, 3512017 Burn-Charring, and 3512021 Burn-White/Waxy are also appropriate v3 replacements.		
3340	Crush	3512061	Crush Injury
3345	Dislocation Fracture	3512043	Pelvic Fracture
3350	Gunshot	3512059	Gunshot Wound
3355	Laceration	3512033	Laceration
3360	Pain without swelling/bruising	3512041	Pain
3365	Puncture/stab	3512051	Puncture/Stab Wound
3370	Soft Tissue Swelling/bruising	3512063	Swelling
3370	Soft Tissue Swelling/bruising	3512065	Contusion

V2 Element

E15\_09 NHTSA Injury Matrix Pelvis

NHTSAInjuryMatrix	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

V2 Pattern

3345Dislocation Fracture

V3 Element

elnjury.03 Trauma Center Criteria

TraumaCenterCriteria	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

V3 Replacement

2903013Pelvic fractures

*V2 Element***E15\_10 NHTSA Injury Matrix Lower Extremities**

NHTSAInjuryMatrix	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

*V3 Element***eExam.16 Extremities Assessment**

ExtremitiesAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

**Comment**

v3 eExam.15 Extremity Assessment Finding Location is not set.

**Mapping***V2 Pattern**V3 Replacement*

3320	Amputation	3516003	Amputation-Acute
3516005 Amputation-Previous is also an appropriate v3 replacement.			
3325	Bleeding Controlled	3516009	Bleeding Controlled
3330	Bleeding Uncontrolled	3516011	Bleeding Uncontrolled
3335	Burn	3516017	Burn-Redness
3516013 Burn-Blistering, 3516015 Burn-Charring, and 3516019 Burn-White/Waxy are also appropriate v3 replacements.			
3340	Crush	3516023	Crush Injury
3345	Dislocation Fracture	3516027	Dislocation
3516033 Fracture-Closed and 3516035 Fracture-Open are also appropriate v3 replacements.			
3350	Gunshot	3516077	Gunshot Wound
3355	Laceration	3516041	Laceration
3360	Pain without swelling/bruising	3516053	Pain
3365	Puncture/stab	3516063	Puncture/Stab Wound
3370	Soft Tissue Swelling/bruising	3516079	Swelling
3370	Soft Tissue Swelling/bruising	3516081	Contusion



*V2 Element***E15\_11 NHTSA Injury Matrix Unspecified**

NHTSAInjuryMatrix	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

*V3 Element***eCustomResults.01 Custom Data Element Result**

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

Comment

Mapping

*V2 Pattern*

3320	Amputation
3325	Bleeding Controlled
3330	Bleeding Uncontrolled
3335	Burn
3340	Crush
3345	Dislocation Fracture
3350	Gunshot
3355	Laceration
3360	Pain without swelling/bruising
3365	Puncture/stab
3370	Soft Tissue Swelling/bruising

*V3 Replacement*

3320	Amputation
3325	Bleeding Controlled
3330	Bleeding Uncontrolled
3335	Burn
3340	Crush
3345	Dislocation Fracture
3350	Gunshot
3355	Laceration
3360	Pain without swelling/bruising
3365	Puncture/stab
3370	Soft Tissue Swelling/bruising

V2 Element

E16\_01 Estimated Body Weight

EstimatedBodyWeight	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eExam.01 Estimated Body Weight in Kilograms

EstimatedBodyWeight	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

*V2 Element***E16\_02 Broselow/Luten Color**

BroselowLutenColor	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

*V3 Element***eExam.02 Length Based Tape Measure**

BroselowLutenColor	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

*V2 Pattern*

3375	Blue
3380	Green
3385	Grey
3390	Orange
3395	Pink
3400	Purple
3405	Red
3410	White
3415	Yellow

*V3 Replacement*

3502001	Blue
3502003	Green
3502005	Grey
3502007	Orange
3502009	Pink
3502011	Purple
3502013	Red
3502015	White
3502017	Yellow

V2 Element

E16\_03 Date/Time of Assessment

DateTime	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}:[0-9]{2}.

Mapping

V2 Pattern

.!="

V3 Element

eExam.03 Date/Time of Assessment

DateTimeType	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

adjust-dateTime-to-timezone(.)

*V2 Element***E16\_04 Skin Assessment**

SkinAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

*V3 Element***eExam.04 Skin Assessment**

SkinAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

*V2 Pattern*

3420	Normal
3425	Not Done
3430	Clammy
3435	Cold
3440	Cyanotic
3445	Jaundiced
3450	Lividity
3455	Mottled
3460	Pale
3465	Warm

*V3 Replacement*

3504021	Normal
3504023	Not Done
3504001	Clammy
3504003	Cold
3504005	Cyanotic
3504015	Jaundiced
3504017	Lividity
3504019	Mottled
3504025	Pale
3504033	Warm

*V2 Element***E16\_05 Head/Face Assessment**

HeadFaceAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment
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Mapping
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*V2 Pattern*

3470	Normal
3475	Not Done
3485	Drainage
3490	Mass/Lesion
3495	Swelling

*V3 Element***eExam.05 Head Assessment**

HeadAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

*V3 Replacement*

3505033	Normal
3505035	Not Done
3505021	Drainage
3505031	Mass/Lesion
3505049	Swelling

V2 Element

E16\_05 Head/Face Assessment

HeadFaceAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

V2 Pattern

3480Asymmetric Smile or Droop

V3 Element

eExam.06 Face Assessment

FaceAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

V3 Replacement

3506003Asymmetric Smile or Droop

*V2 Element***E16\_06 Neck Assessment**

NeckAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

*V2 Pattern*

3500	Normal
3505	Not Done
3510	JVD
3515	Strider
3520	SubQ Air
3525	Tracheal Dev
3525	Tracheal Dev

*V3 Element***eExam.07 Neck Assessment**

NeckAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

*V3 Replacement*

3507029	Normal
3507031	Not Done
3507025	JVD
3507037	Stridor
3507039	Subcutaneous Air
3507045	Tracheal Deviation-Left
3507047	Tracheal Deviation-Right



*V2 Element***E16\_07 Chest/Lungs Assessment**

ChestLungsAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

*V3 Element***eExam.08 Chest/Lungs Assessment**

ChestLungsAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

*V2 Pattern*

3530	Normal
3535	Not Done
3540	Accessory Muscles
3545	Decreased BS-Left
3550	Decreased BS-Right
3555	Flail Segment-Left
3560	Flail Segment-Right
3565	Increased Effort
3570	Normal BS
3508019 Breath Sounds-Equal is also an appropriate v3 replacement.	
3570	Normal BS
3508019 Breath Sounds-Equal is also an appropriate v3 replacement.	
3575	Rales
3575	Rales
3580	Rhonchi/Wheezing
3585	Tenderness-Left
3590	Tenderness-Right

*V3 Replacement*

3508053	Normal
3508055	Not Done
3508005	Accessory Muscles Used with Breathing
3508015	Breath Sounds-Decreased Left
3508017	Breath Sounds-Decreased Right
3508037	Flail Segment-Left
3508039	Flail Segment-Right
3508047	Increased Respiratory Effort
3508021	Breath Sounds-Normal-Left
3508023	Breath Sounds-Normal-Right
3508065	Rales-Left
3508067	Rales-Right
3508075	Rhonchi/Wheezing
3508085	Tenderness-Left
3508087	Tenderness-Right

V2 Element

E16\_07 Chest/Lungs Assessment

ChestLungsAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

V2 Pattern

3555	Flail Segment-Left
3560	Flail Segment-Right

V3 Element

elnjury.03 Trauma Center Criteria

TraumaCenterCriteria	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

V3 Replacement

2903005	Chest wall instability or deformity (e.g., flail chest)
2903005	Chest wall instability or deformity (e.g., flail chest)

*V2 Element*

## E16\_08 Heart Assessment

HeartAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

*V2 Pattern*

3595	Normal
3600	Not Done
3605	Decreased Sounds
3610	Murmur
3509005 Murmur-Diastolic is also an appropriate v3 replacement.	

*V3 Element*

## eExam.09 Heart Assessment

HeartAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

*V3 Replacement*

3509009	Normal
3509011	Not Done
3509003	Heart Sounds Decreased
3509007	Murmur-Systolic

*V2 Element***E16\_09 Abdomen Left Upper Assessment**

AbdomenLeftUpperAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

*V3 Element***eExam.11 Abdomen Assessment**

AbdomenAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

**Comment**

v3 eExam.10 Abdominal Assessment Finding Location is set to 3510005 Left Upper Quadrant.

**Mapping***V2 Pattern*

3615	Normal
3620	Not Done
3625	Distention
3630	Guarding
3635	Mass
3511035 Mass-Pulsating is also an appropriate v3 replacement.	
3640	Tenderness

*V3 Replacement*

3511037	Normal
3511039	Not Done
3511021	Distention
3511025	Guarding
3511033	Mass/Lesion
3511051	Tenderness

*V2 Element***E16\_10 Abdomen Left Lower Assessment**

AbdomenLowerLeftAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

*V3 Element***eExam.11 Abdomen Assessment**

AbdomenAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

**Comment**

v3 eExam.10 Abdominal Assessment Finding Location is set to 3510003 Left Lower Quadrant.

**Mapping***V2 Pattern*

3645	Normal
3650	Not Done
3655	Distention
3660	Guarding
3665	Mass
3670	Tenderness

*V3 Replacement*

3511037	Normal
3511039	Not Done
3511021	Distention
3511025	Guarding
3511033	Mass/Lesion
3511051	Tenderness

V2 Element

E16\_11 Abdomen Right Upper Assessment

AbdomenRightUpperAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

V3 Element

eExam.11 Abdomen Assessment

AbdomenAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

Comment

v3 eExam.10 Abdominal Assessment Finding Location is set to 3510011 Right Upper Quadrant.

Mapping

V2 Pattern		V3 Replacement	
3675	Normal	3511037	Normal
3680	Not Done	3511039	Not Done
3685	Distention	3511021	Distention
3690	Guarding	3511025	Guarding
3695	Mass	3511033	Mass/Lesion
3700	Tenderness	3511051	Tenderness

*V2 Element***E16\_12 Abdomen Right Lower Assessment**

AbdomenRightLowerAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

*V3 Element***eExam.11 Abdomen Assessment**

AbdomenAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

**Comment**

v3 eExam.10 Abdominal Assessment Finding Location is set to 3510009 Right Lower Quadrant.

**Mapping***V2 Pattern*

3705	Normal
3710	Not Done
3715	Distention
3720	Guarding
3725	Mass
3730	Tenderness

*V3 Replacement*

3511037	Normal
3511039	Not Done
3511021	Distention
3511025	Guarding
3511033	Mass/Lesion
3511051	Tenderness

*V2 Element***E16\_13 GU Assessment**

GUAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment
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Mapping
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*V2 Pattern*

3735	Normal
3740	Not Done
3745	Crowning
3750	Genital Injury
3755	Tenderness
3760	Unstable

*V3 Element***eExam.12 Pelvis/Genitourinary Assessment**

GUAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

*V3 Replacement*

3512037	Normal
3512039	Not Done
3512049	Pregnant-Crowning
3512027	Genital Injury
3512057	Tenderness
3512045	Pelvic Instability



V2 Element

E16\_14 Back Cervical Assessment

BackCervicalAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

v3 eExam.13 Back and Spine Assessment Finding Location is set to 3513005 Cervical-Midline.

Mapping

V2 Pattern

3765	Normal
3770	Not Done
3775	Pain to ROM
3780	Tender Para-spinous
3785	Tender Spinous Process

V3 Element

eExam.14 Back and Spine Assessment

BackAndSpineAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

V3 Replacement

3514027	Normal
3514029	Not Done
3514033	Pain with Range of Motion
3514045	Tenderness Paraspinous
3514043	Tenderness Midline Spinous Process

V2 Element

E16\_15 Back Thoracic Assessment

BackThoracicAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

v3 eExam.13 Back and Spine Assessment Finding Location is set to 3513011 Lumbar-Midline.

Mapping

V2 Pattern

3790	Normal
3795	Not Done
3800	Pain to ROM
3805	Tender Para-spinous
3810	Tender Spinous Process

V3 Element

eExam.14 Back and Spine Assessment

BackAndSpineAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

V3 Replacement

3514027	Normal
3514029	Not Done
3514033	Pain with Range of Motion
3514045	Tenderness Paraspinous
3514043	Tenderness Midline Spinous Process

*V2 Element***E16\_16 Back Lumbar/Sacral Assessment**

BackLumbarSacralAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

*V3 Element***eExam.14 Back and Spine Assessment**

BackAndSpineAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

**Comment**

v3 eExam.13 Back and Spine Assessment Finding Location is set to 3513017 Thoracic-Midline. 3513023 Sacral-Midline is also an appropriate v3 value.

**Mapping***V2 Pattern*

3815	Normal
3820	Not Done
3825	Pain to ROM
3830	Tender Para-spinous
3835	Tender Spinous Process

*V3 Replacement*

3514027	Normal
3514029	Not Done
3514033	Pain with Range of Motion
3514045	Tenderness Paraspinous
3514043	Tenderness Midline Spinous Process

*V2 Element***E16\_17 Extremities-Right Upper Assessment**

ExtremitiesRightUpperAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

*V3 Element***eExam.16 Extremities Assessment**

ExtremitiesAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

**Comment**

v3 eExam.15 Extremity Assessment Finding Location is not set.

**Mapping***V2 Pattern*

3840	Normal
3845	Not Done
3850	Abnormal Pulse
3855	Abnormal Sensation
3860	Edema
3865	Tenderness
3870	Weakness

*V3 Replacement*

3516049	Normal
3516051	Not Done
3516057	Pulse-Abnormal
3516065	Sensation-Abnormal
3516029	Edema
3516075	Tenderness
3516043	Motor Function-Abnormal/Weakness

*V2 Element*

## E16\_18 Extremities-Right Lower Assessment

ExtremitiesRightLowerAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

*V3 Element*

## eExam.16 Extremities Assessment

ExtremitiesAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

## Comment

v3 eExam.15 Extremity Assessment Finding Location is not set.

## Mapping

*V2 Pattern*

3875	Normal
3880	Not Done
3885	Abnormal Pulse
3890	Abnormal Sensation
3895	Edema
3900	Tenderness
3905	Weakness

*V3 Replacement*

3516049	Normal
3516051	Not Done
3516057	Pulse-Abnormal
3516065	Sensation-Abnormal
3516029	Edema
3516075	Tenderness
3516043	Motor Function-Abnormal/Weakness

*V2 Element*

## E16\_19 Extremities-Left Upper Assessment

ExtremitiesLeftUpperAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

*V3 Element*

## eExam.16 Extremities Assessment

ExtremitiesAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

## Comment

v3 eExam.15 Extremity Assessment Finding Location is not set.

## Mapping

*V2 Pattern*

3910	Normal
3915	Not Done
3920	Abnormal Pulse
3925	Abnormal Sensation
3930	Edema
3935	Tenderness
3940	Weakness

*V3 Replacement*

3516049	Normal
3516051	Not Done
3516057	Pulse-Abnormal
3516065	Sensation-Abnormal
3516029	Edema
3516075	Tenderness
3516043	Motor Function-Abnormal/Weakness

*V2 Element***E16\_20 Extremities-Left Lower Assessment**

ExtremitiesLeftLowerAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

*V3 Element***eExam.16 Extremities Assessment**

ExtremitiesAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

**Comment**

v3 eExam.15 Extremity Assessment Finding Location is not set.

**Mapping***V2 Pattern*

3945	Normal
3950	Not Done
3955	Abnormal Pulse
3960	Abnormal Sensation
3965	Edema
3970	Tenderness
3975	Weakness

*V3 Replacement*

3516049	Normal
3516051	Not Done
3516057	Pulse-Abnormal
3516065	Sensation-Abnormal
3516029	Edema
3516075	Tenderness
3516043	Motor Function-Abnormal/Weakness

V2 Element

E16\_21 Eyes-Left Assessment

EyesLeftAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

V3 Element

eExam.18 Eye Assessment

EyesAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

Comment

v3 eExam.17 Eye Assessment Finding Location is set to 3517003 Left.

Mapping

V2 Pattern		V3 Replacement	
3980	Not Done	3518039	Not Done
3985	2-mm	3518003	2-mm
3990	3-mm	3518005	3-mm
3995	4-mm	3518007	4-mm
4000	5-mm	3518009	5-mm
4005	6-mm	3518011	6-mm
4010	7-mm	3518013	7-mm
4015	Blind	3518017	Blind
4020	Reactive	3518051	Reactive
4025	Non-Reactive	3518037	Non-Reactive



*V2 Element***E16\_22 Eyes-Right Assessment**

EyesRightAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

*V3 Element***eExam.18 Eye Assessment**

EyesAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

**Comment**

v3 eExam.17 Eye Assessment Finding Location is set to 3517005 Right.

**Mapping***V2 Pattern*

4030	Not Done
4035	2-mm
4040	3-mm
4045	4-mm
4050	5-mm
4055	6-mm
4060	7-mm
4065	Blind
4070	Reactive
4075	Non-Reactive

*V3 Replacement*

3518039	Not Done
3518003	2-mm
3518005	3-mm
3518007	4-mm
3518009	5-mm
3518011	6-mm
3518013	7-mm
3518017	Blind
3518051	Reactive
3518037	Non-Reactive

*V2 Element***E16\_23 Mental Status Assessment**

MentalStatusAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

*V3 Element***eExam.19 Mental Status Assessment**

MentalStatusAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

*V2 Pattern*

4080	Normal
4085	Not Done
4090	Combative
4095	Confused
4100	Hallucinations
4105	Oriented-Person
4110	Oriented-Place
4115	Oriented-Time
4120	Unresponsive

*V3 Replacement*

3519007	Normal Baseline for Patient
3519009	Not Done
3519001	Combative
3519003	Confused
3519005	Hallucinations
3519011	Oriented-Person
3519013	Oriented-Place
3519017	Oriented-Time
3519021	Unresponsive

V2 Element

E16\_24 Neurological Assessment

NeurologicalAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

V2 Pattern

4140                      Facial Droop

V3 Element

eExam.06 Face Assessment

FaceAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

V3 Replacement

3506003                      Asymmetric Smile or Droop

*V2 Element***E16\_24 Neurological Assessment**

NeurologicalAssessment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

*V3 Element***eExam.20 Neurological Assessment**

NeurologicalAssessment	
Null Values	No
Is Nillable	No
Recurrence	0 : M

*V2 Pattern*

4125	Normal
4130	Not Done
4135	Abnormal Gait
4145	Seizures
4150	Speech Normal
4155	Speech Slurring
4160	Tremors
4165	Weakness-Left Sided
4170	Weakness-Right Sided

*V3 Replacement*

3520021	Normal Baseline for Patient
3520023	Not Done
3520013	Gait-Abnormal
3520025	Seizures
3520027	Speech Normal
3520029	Speech Slurring
3520037	Tremors
3520043	Weakness-Left Sided
3520045	Weakness-Right Sided

*V2 Element**V3 Element*

## E17\_01 Protocols Used

## eProtocols.01 Protocols Used

ProtocolsUsed		ProtocolsUsed	
Null Values	Yes	Null Values	Yes
Is Nillable	No	Is Nillable	Yes
Recurrence	1 : 1	Recurrence	1 : 1
Comment			

v2 also includes DescriptiveText, which is a string of length 2 to 100.

## Mapping

<i>V2 Pattern</i>		<i>V3 Replacement</i>	
6720	Abdominal Pain	9914109	Medical-Abdominal Pain
6730	Airway	9914001	Airway
6740	Airway-Failed	9914003	Airway-Failed
6760	Airway-RSI	9914007	Airway-Rapid Sequence Induction (RSI-Paralytic)
6770	Allergic Reaction/Anaphylaxis	9914111	Medical-Allergic Reaction/Anaphylaxis
6780	Altered Mental Status	9914113	Medical-Altered Mental Status
6790	Asystole	9914011	Cardiac Arrest-Asystole
6800	Back Pain	9914051	General-Back Pain
6810	Behavioral	9914053	General-Behavioral/Patient Restraint
6820	Bites and Envenomations	9914079	Injury-Bites and Envenomations-Land
9914081 Injury-Bites and Envenomations-Marine is also an appropriate v3 replacement.			
6830	Bradycardia	9914115	Medical-Bradycardia
6840	Burns	9914085	Injury-Burns-Thermal
6850	Cardiac Arrest	9914055	General-Cardiac Arrest
6860	Cardiac Chest Pain	9914117	Medical-Cardiac Chest Pain
6870	Childbirth/Labor	9914155	OB/GYN-Childbirth/Labor/Delivery
6875	Cold Exposure	9914023	Environmental-Cold Exposure
6880	Dental Problems	9914057	General-Dental Problems
6881	Device Malfunction	9914069	General-Medical Device Malfunction
6885	Diarrhea	9914119	Medical-Diarrhea
6890	Drowning/Near Drowning	9914093	Injury-Drowning/Near Drowning
6892	Diving Emergencies	9914091	Injury-Diving Emergencies
6900	Electrical Injuries	9914095	Injury-Electrical Injuries
6910	Epistaxis	9914059	General-Epistaxis
6911	Exposure-Airway Irritants	9914033	Exposure-Airway/Inhalation Irritants
6912	Exposure-Biological/Infectious	9914035	Exposure-Biological/Infectious
6913	Exposure-Blistering Agents	9914037	Exposure-Blistering Agents
6914	Exposure-Cyanide	9914043	Exposure-Cyanide
6915	Exposure-Nerve Agents	9914047	Exposure-Nerve Agents

6916	Exposure-Radiologic Agents	9914049	Exposure-Radiologic Agents
6917	Exposure-Riot Control Agents	9914033	Exposure-Airway/Inhalation Irritants
	Not precise.		
6920	Extremity Trauma	9914097	Injury-Extremity
6925	Eye Trauma	9914099	Injury-Eye
6930	Fever	9914061	General-Fever
6935	Gynecologic Emergencies	9914159	OB/GYN-Gynecologic Emergencies
6940	Head Trauma	9914101	Injury-Head
6945	Hyperglycemia	9914121	Medical-Hyperglycemia
6950	Hypertension	9914123	Medical-Hypertension
6960	Hyperthermia	9914029	Environmental-Heat Stroke/Hyperthermia
6965	Hypoglycemia	9914125	Medical-Hypoglycemia/Diabetic Emergency
6970	Hypotension/Shock (Non-Trauma)	9914127	Medical-Hypotension/Shock (Non-Trauma)
6980	Hypothermia	9914031	Environmental-Hypothermia
6990	IV Access	9914067	General-IV Access
7000	Trauma-Multisystem	9914105	Injury-Multisystem
7010	Newly Born	9914155	OB/GYN-Childbirth/Labor/Delivery
	9914075 General-Universal Patient Care/ Initial Patient Contact is also an appropriate v3 replacement.		
7020	Obstetrical Emergencies	9914161	OB/GYN-Pregnancy Related Emergencies
7030	Over Dose/Toxic Ingestion	9914135	General-Overdose/Poisoning/Toxic Ingestion
7040	Pain Control	9914071	General-Pain Control
7130	Post Resuscitation	9914019	Cardiac Arrest-Post Resuscitation Care
7140	Pulmonary Edema	9914137	Medical-Pulmonary Edema/CHF
7150	Pulseless Electrical Activity (PEA)	9914015	Cardiac Arrest-Pulseless Electrical Activity
7160	Respiratory Distress	9914139	Medical-Respiratory Distress/Asthma/COPD/Reactive Airway
7170	Seizure	9914141	Medical-Seizure
7180	Spinal Immobilization	9914073	General-Spinal Immobilization/Clearance
7190	Supraventricular Tachycardia	9914147	Medical-Supraventricular Tachycardia (Including Atrial Fibrillation)
7200	Stroke/TIA	9914145	Medical-Stroke/TIA
7210	Syncope	9914149	Medical-Syncope
7214	Trauma-Arrest	9914087	Injury-Cardiac Arrest
7215	Trauma-Amputation	9914077	Injury-Amputation
7220	Universal Patient Care	9914075	General-Universal Patient Care/ Initial Patient Contact
7230	Ventricular Fibrillation	9914017	Cardiac Arrest-Ventricular Fibrillation/ Pulseless Ventricular Tachycardia
7232	Ventricular Ectopy	9914151	Medical-Ventricular Tachycardia (With Pulse)
	Not precise.		
7240	Ventricular Tachycardia	9914151	Medical-Ventricular Tachycardia (With Pulse)
	9914017 Cardiac Arrest-Ventricular Fibrillation/ Pulseless Ventricular Tachycardia may also be an appropriate v3 replacement.		
7251	Vomiting	9914131	Medical-Nausea/Vomiting

V2 Element

E18\_01 Date/Time Medication Administered

DateTime	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

Comment

v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}:[0-9]{2}.

Mapping

V2 Pattern

.!="

V3 Element

eMedications.01 Date/Time Medication Administered

DateTimeType	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

adjust-dateTime-to-timezone(.)

V2 Element

E18\_02 Medication Administered Prior to this Units EMS Care

YesNoValues	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

0	No
1	Yes

V3 Element

eMedications.02 Medication Administered Prior to this Unit's EMS Care

YesNoValues	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

9923001	No
9923003	Yes



*V2 Element***E18\_03 Medication Given**

MedicationsGiven	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

*V3 Element***eMedications.03 Medication Given**

Medication	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

**Comment**

v2 allows length 2 to 30. v3 allows length 2 to 7 and specifies the use of RxNorm. To add mappings, add entries to v2v3ValueMappingMedication. It is pre-filled with 150 mappings representing 96% of medication administrations with mappable medication names in the National EMS Database.

**Mapping***V2 Pattern**V3 Replacement*

7806

Oxygen

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

50% Dextrose TTY=SCD.	237653	Glucose 500 MG/ML Injectable Solution
9% NSS TTY=SCD/SY. V2 value is incorrect; it should be 0.9% NSS.	313002	Sodium Chloride 0.9% Injectable Solution
Acetaminophen	161	Acetaminophen
Adenosine	296	Adenosine
Albuterol	435	Albuterol
Albuterol 2.5/ Atrovent 0.5 TTY=MIN.	214199	Albuterol / Ipratropium
Albuterol Sulfate	435	Albuterol
Amiodarone	703	Amiodarone
Amiodarone (Cordarone)	703	Amiodarone
Amiodorone (Cordarone)	703	Amiodarone
ASA	1191	Aspirin
Aspirin	1191	Aspirin
Aspirin (ASA)	1191	Aspirin
Aspirin 81-325 mg	1191	Aspirin
Ativan	6470	Lorazepam
Atropine	1223	Atropine
Atropine Sulfate	1223	Atropine
Atrovent	7213	Ipratropium
Atrovent (Ipratropium Bromide)	7213	Ipratropium
Atrovent 0.5mg /Albuterol 3.0m TTY=MIN.	214199	Albuterol / Ipratropium
Atrovent 0.5mg/Albuterol 3.0mg TTY=MIN.	214199	Albuterol / Ipratropium
Baby Aspirin	1191	Aspirin
Benadryl	3498	Diphenhydramine

Calcium Chloride	1901	Calcium Chloride
Cardizem	3443	Diltiazem
D50	237653	Dextrose 50 % Injectable Solution
TTY=SCD/SY.		
D5W (Dextrose 5% in Water)	309778	Dextrose 5 % Injectable Solution
TTY=SCD/SY.		
D5W w/ 1/2 Normal Saline	309806	Dextrose 5 % / sodium chloride 0.45 % Injectable Solution
TTY=SCD/SY.		
Dexamethasone (Decadron)	3264	Dexamethasone
Dextrose	4850	Glucose
DEXTROSE 50 %	237653	Dextrose 50 % Injectable Solution
TTY=SCD/SY.		
Dextrose 50%	237653	Dextrose 50 % Injectable Solution
TTY=SCD/SY.		
Dextrose 50% (D50)	237653	Dextrose 50 % Injectable Solution
TTY=SCD/SY.		
Diazepam	3322	Diazepam
Diazepam (Valium)	3322	Diazepam
Dilaudid	3423	Hydromorphone
Diltiazem	3443	Diltiazem
Diltiazem (Cardizem)	3443	Diltiazem
Diphenhydramine	3498	diphenhydramine
DIPHENHYDRAMINE (BENADRYL)	3498	diphenhydramine
Diphenhydramine (Benedryl)	3498	diphenhydramine
Dopamine	3628	Dopamine
DuoNeb	204199	Albuterol / Ipratropium
TTY=MIN.		
DuoNeb (0.5 Atrovent/3.0 Albut)	204199	Albuterol / Ipratropium
TTY=MIN. V2 value is contradictory. DuoNeb is not 3.0 albuterol / 0.5 ipratropium.		
EPI 1:10,000	317361	Epinephrine 0.1 MG/ML
TTY=SCDC.		
EPI 1:10000	317361	Epinephrine 0.1 MG/ML
TTY=SCDC.		
Epinephrine	3992	Epinephrine
Epinephrine (1:10,000)	317361	Epinephrine 0.1 MG/ML
TTY=SCDC.		
Epinephrine 1:1,000	328316	Epinephrine 1 MG/ML
TTY=SCDC.		
Epinephrine 1:10	317361	Epinephrine 0.1 MG/ML
TTY=SCDC. V2 value is incorrect. It should be 1:10,000.		
Epinephrine 1:10,000	317361	Epinephrine 0.1 MG/ML
TTY=SCDC.		
Epinephrine 1:1000	328316	Epinephrine 1 MG/ML
TTY=SCDC.		
Epi-Pen Adult	328316	Epinephrine 1 MG/ML
TTY=SCDC.		
Etomidate	4177	Etomidate
Fentanyl	4337	Fentanyl
Fentanyl (Sublimaze)	4337	Fentanyl

Furosemide	4603	Furosemide
Furosemide (Lasix)	4603	Furosemide
Glucagon	4832	Glucagon
Glucose (Oral)	4850	Glucose
Haloperidol (Haldol)	5093	Haloperidol
Heparin	5224	Heparin
Hydromorphone (Dilaudid)	3423	Hydromorphone
IBUPROFEN	5640	Ibuprofen
insulin	5856	Insulin
Ipratropium	7213	Ipratropium
Ipratropium (Atrovent)	7213	Ipratropium
Ketorolac (Toradol)	35827	Ketorolac
Labetalol	6185	Labetalol
Lactated Ringers	35629	Lactated Ringer's Solution
Lasix	4603	Furosemide
Levalbuterol HCL (Xopenex)	237159	Levalbuterol
Lidocaine	6387	Lidocaine
Lopressor	6918	Metoprolol
Lorazepam	6470	Lorazepam
Lorazepam (Ativan)	6470	Lorazepam
LOVENOX	67108	Enoxaparin
Magnesium Sulfate	6585	Magnesium Sulfate
Meperidine (Demerol)	6754	Meperidine
Methylprednisolone	6902	Methylprednisolone
Methylprednisolone (Solu-Medro)	6902	Methylprednisolone
Methylprednisolone/Solu-Medrol	6902	Methylprednisolone
Metoprolol (Lopressor)	6918	Metoprolol
Midazolam	6960	Midazolam
Midazolam (Versed)	6960	Midazolam
Morphine	7052	Morphine
Morphine Sulfate	7052	Morphine
Naloxone	7242	Naloxone
Naloxone (Narcan)	7242	Naloxone
Narcan	7242	Naloxone
Nitro Spray	4917	Nitroglycerin
Nitroglycerin	4917	Nitroglycerin
Nitroglycerin Infusion	4917	Nitroglycerin
Nitroglycerin Paste	4917	Nitroglycerin
Nitroglycerin SL	4917	Nitroglycerin
Nitroglycerin Spray	4917	Nitroglycerin
Nitroglycerin, (spray or tabs)	4917	Nitroglycerin
Nitroglycerine	4917	Nitroglycerin
Nitroglycerine (0.4 mg)	4917	Nitroglycerin
Nitroglycerine SL	4917	Nitroglycerin
Nitroglycerine Spray	4917	Nitroglycerin

Nitroglycerine Tabs	4917	Nitroglycerin
Nitrostat	4917	Nitroglycerin
Norepinephrine	7512	NorEpinephrine
Normal Saline	313002	Sodium Chloride 0.9% Injectable Solution
TTY=SCD/SY. 125464 Normal saline is an appropriate v3 replacement if it was used for irrigation instead of injection.		
Normal Saline (Respiratory Use)	379454	Sodium Chloride Inhalant Solution
TTY=SCDF.		
Normal Saline IV Solution	313002	Sodium Chloride 0.9% Injectable Solution
TTY=SCD/SY. 125464 Normal saline is an appropriate v3 replacement if it was used for irrigation instead of injection.		
Normal Saline Solution	313002	Sodium Chloride 0.9% Injectable Solution
TTY=SCD/SY. 125464 Normal saline is an appropriate v3 replacement if it was used for irrigation instead of injection.		
Ondansetron	26225	Ondansetron
Ondansetron (Zofran)	26225	Ondansetron
Ondansetron	26225	Ondansetron
Oral Glucose	4850	Glucose
Oxygen	7806	Oxygen
Oxygen (non-rebreather mask)	7806	Oxygen
OXYGEN (O2)	7806	Oxygen
OXYGEN ADMINISTRATION	7806	Oxygen
Oxygen by Blow By	7806	Oxygen
Oxygen by BVM	7806	Oxygen
Oxygen by Mask	7806	Oxygen
Oxygen by Nasal Cannula	7806	Oxygen
Oxygen by Nebulizer	7806	Oxygen
Oxygen by Non-Rebreather Mask	7806	Oxygen
Oxygen by Positive Pressure De	7806	Oxygen
PHENERGAN	8745	Promethazine
plavix	32968	clopidogrel
PROMETHAZINE	8745	Promethazine
Promethazine HCl (Phenergan)	8745	Promethazine
Promethazine HCL (Phenergran)	8745	Promethazine
PROPOFOL	8782	Propofol
Rocephin	2193	Ceftriaxone
Rocuronium Bromide (Zemuron)	68139	Rocuronium
Saline	313002	Sodium Chloride 0.9% Injectable Solution
TTY=SCD/SY. 125464 Normal saline is an appropriate v3 replacement if it was used for irrigation instead of injection.		
Sodium Bicarbonate	36676	Sodium Bicarbonate
SODIUM CHLORIDE 0.9%	313002	Sodium Chloride 0.9% Injectable Solution
TTY=SCD/SY. 125464 Normal saline is an appropriate v3 replacement if it was used for irrigation instead of injection.		
Solu-Medro (Methylprednisone S	6902	Methylprednisolone
Solumedrol	6902	Methylprednisolone
Solu-Medrol	6902	Methylprednisolone
Succinylcholine	10154	Succinylcholine
Succinylcholine (Anectine)	10154	Succinylcholine
Thiamine	10454	Thiamine
TORADOL	35827	Ketorolac
Tylenol	5640	Acetaminophen

VALIUM	3322	Diazepam
Vancomycin	11124	Vancomycin
Vasopressin	11149	Vasopressin (USP)
Vecuronium	71535	Vecuronium
Vecuronium (Norcuron)	71535	Vecuronium
Versed	6960	Midazolam
XOPENEX	237159	Levalbuterol
Zofran	26225	Ondansetron

*V2 Element***E18\_04 Medication Administered Route**

MedicationAdministeredRoute	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

*V3 Element***eMedications.04 Medication Administered Route**

CurrentMedicationAdministrationRoute	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

*V2 Pattern*

4175	Endotracheal tube
4180	Gastrostomy tube
4185	Inhalation
4190	Intramuscular
4191	Intraosseous
4195	Intranasal
4200	Intraocular
4205	Intravenous
4210	Nasal
4215	Nasal prongs
4220	Nasogastric
4225	Ophthalmic
4230	Oral
4235	Other/miscellaneous
v3 supports additional specific values.	
4240	Otic
4245	Re-breather mask
4250	Rectal
4255	Subcutaneous
4260	Sublingual
4265	Topical
4270	Tracheostomy
4275	Transdermal
4280	Urethral
4285	Ventimask
4290	Wound

*V3 Replacement*

9927005	Endotracheal Tube (ET)
9927007	Gastrostomy Tube
9927009	Inhalation
9927015	Intramuscular (IM)
9927021	Intraosseous (IO)
9927017	Intranasal
9927019	Intraocular
9927023	Intravenous (IV)
9927017	Intranasal
9927025	Nasal Cannula
9927027	Nasogastric
9927033	Ophthalmic
9927035	Oral
9927037	Other/miscellaneous
9927039	Otic
9927041	Re-breather mask
9927043	Rectal
9927045	Subcutaneous
9927047	Sublingual
9927049	Topical
9927051	Tracheostomy
9927053	Transdermal
9927055	Urethral
9927057	Ventimask
9927059	Wound

V2 Element

E18\_05 Medication Dosage

MedicationDosage	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eMedications.05 Medication Dosage

MedicationDosage	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

.

*V2 Element***E18\_06 Medication Dosage Units**

MedicationDosageUnits	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

*V3 Element***eMedications.06 Medication Dosage Units**

MedicationDosageUnits	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

**Comment****Mapping***V2 Pattern*

4295	GMS
4300	Inches
4305	IU
4310	KVO (TKO)
4315	L/MIN
4320	LITERS
4325	LPM
4330	MCG
4335	MCG/KG/MIN
4340	MEQ
4345	MG
4350	MG/KG/MIN
4355	ML
4360	ML/HR
4365	Other
v3 supports additional specific values.	
4370	Puffs

*V3 Replacement*

3706001	Grams (gms)
3706003	Inches (in)
3706005	International Units (IU)
3706007	Keep Vein Open (kvo)
3706011	Liters Per Minute (l/min [fluid])
3706009	Liters (l)
3706035	Liters Per Minute (LPM [gas])
3706015	Micrograms (mcg)
3706017	Micrograms per Kilogram per Minute (mcg/kg/min)
3706019	Milliequivalents (mEq)
3706021	Milligrams (mg)
3706023	Milligrams per Kilogram Per Minute (mg/kg/min)
3706025	Milliliters (ml)
3706027	Milliliters per Hour (ml/hr)
3706029	Other
3706043	Puffs



V2 Element

E18\_07 Response to Medication

ResponseToMedication	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

4375	Improved
4380	Unchanged
4385	Worse

V3 Element

eMedications.07 Response to Medication

Response	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

9916001	Improved
9916003	Unchanged
9916005	Worse

*V2 Element***E18\_08 Medication Complication**

MedicationComplication	
Null Values	Yes
Is Nillable	No
Recurrence	1 : M

Comment

Mapping

*V3 Element***eMedications.08 Medication Complication**

MedicationComplication	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

*V2 Pattern*

4390	None
4395	Altered Mental Status
4400	Apnea
4405	Bleeding
4410	Bradycardia
4415	Diarrhea
4420	Extravasation
4425	Hypertension
4430	Hyperthermia
4435	Hypotension
4440	Hypoxia
4445	Injury
4450	Itching/Urticaria
4450	Itching/Urticaria
4455	Nausea
4460	Other
v3 supports additional specific values.	
4465	Respiratory Distress
4470	Tachycardia
4475	Vomiting

*V3 Replacement*

3708031	None
3708001	Altered Mental Status
3708003	Apnea
3708005	Bleeding
3708007	Bradycardia
3708011	Diarrhea
3708013	Extravasation
3708015	Hypertension
3708017	Hyperthermia
3708019	Hypotension
3708023	Hypoxia
3708025	Injury
3708043	Itching
3708045	Urticaria
3708029	Nausea
3708033	Other (Not Listed)
3708035	Respiratory Distress
3708037	Tachycardia
3708041	Vomiting

V2 Element

E18\_09 Medication Crew Member ID

CrewMemberID	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eMedications.09 Medication Crew (Healthcare Professionals) ID

CrewMemberID	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

*V2 Element***E18\_10 Medication Authorization**

MedicationAuthorization	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

*V3 Element***eMedications.11 Medication Authorization**

TxAuthorization	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

*V2 Pattern*

4480	On-Line
4485	On-Scene
4490	Protocol (Standing Order)
4495	Written Orders (Patient Specific)

*V3 Replacement*

9918001	On-Line (Remote Verbal Order)
9918003	On-Scene
9918005	Protocol (Standing Order)
9918007	Written Orders (Patient Specific)

V2 Element

E18\_11 Medication Authorizing Physician

LastName	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

eMedications.12 Medication Authorizing Physician

PersonName	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v2 defines as the last name. v3 defines as the name.

Mapping

V2 Pattern

V3 Replacement

.

.

V2 Element

E19\_01 Date/Time Procedure Performed Successfully

DateTime	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

V3 Element

eAirway.02 Date/Time Airway Device Placement Confirmation

DateTimeType	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

Comment

This mapping is correlated with the mapping of E19\_03 Procedure to eAirway.04 Airway Device Placement Confirmed Method. v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}:[0-9]{2}.

Mapping

V2 Pattern

.!=""

V3 Replacement

adjust-dateTime-to-timezone(.)

V2 Element

E19\_01 Date/Time Procedure Performed Successfully

DateTime	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

V3 Element

eDisposition.25 Date/Time of Destination Prearrival Alert or Activation

DateTimeType	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

This mapping is correlated with the mapping of E19\_03 Procedure to eDisposition.24 Destination Team Pre-Arrival Activation. v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}:[0-9]{2}.

Mapping

V2 Pattern

.!=""

V3 Replacement

adjust-dateTime-to-timezone(.)

V2 Element

E19\_01 Date/Time Procedure Performed Successfully

DateTime	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

V3 Element

eProcedures.01 Date/Time Procedure Performed

DateTimeType	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}:[0-9]{2}.

Mapping

V2 Pattern

.!=""

V3 Replacement

adjust-dateTime-to-timezone(.)



V2 Element

E19\_02 Procedure Performed Prior to this Units EMS Care

YesNoValues	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

0	No
1	Yes

V3 Element

eProcedures.02 Procedure Performed Prior to this Unit's EMS Care

YesNoValues	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

9923001	No
9923003	Yes

*V2 Element***E19\_03 Procedure**

Procedure	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

*V3 Element***eAirway.03 Airway Device Being Confirmed**

DeviceBeingConfirmed	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

**Comment****Mapping***V2 Pattern*

31.110	Airway-Needle Cricothyrotomy
31.120	Airway-Surgical Cricothyrotomy
96.030	Airway-EOA/EGTA
96.040	Airway-Orotracheal Intubation
96.041	Airway-Nasotracheal Intubation
96.042	Airway-Rapid Sequence Induction
96.051	Airway-Combitube Blind Insertion Airway Device
96.052	Airway-Laryngeal Mask Blind Insertion Airway Device
96.053	Airway-King LT Blind Insertion Airway Device
97.231	Airway-Intubation of Existing Tracheostomy Stoma

*V3 Replacement*

4003001	Cricothyrotomy Tube
4003001	Cricothyrotomy Tube
4003005	Other-Invasive Airway
4003003	Endotracheal Tube
4003003	Endotracheal Tube
4003003	Endotracheal Tube
4003007	SAD-Combitube
4003011	SAD-LMA
4003009	SAD-King
4003015	Tracheostomy Tube

V2 Element

E19\_03 Procedure

Procedure	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V3 Element

eAirway.04 Airway Device Placement Confirmed Method

DeviceConfirmedMethods	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : M

V2 Pattern

96.991	Airway-Intubation Confirm Colorimetric ETCO2
96.992	Airway-Intubation Confirm Esophageal Bulb

V3 Replacement

4004005	Colorimetric ETCO2
4004003	Bulb/Syringe Aspiration

*V2 Element***E19\_03 Procedure***V3 Element***eArrest.09 Type of CPR Provided**

Procedure		CPRTYPE	
Null Values	Yes	Null Values	Yes
Is Nillable	No	Is Nillable	Yes
Recurrence	1 : 1	Recurrence	1 : M

**Comment****Mapping***V2 Pattern**V3 Replacement*

93.931	Airway-Bagged (via BVMask)	3009013	Ventilation-Bag Valve Mask
96.703	Airway-Impedance Threshold Device	3009015	Ventilation-Impedance Threshold Device
99.600	CPR-Start Compressions and Ventilations	3009009	Compressions-Intermittent with Ventilation
99.601	CPR by Other External Automated Device	3009011	Compressions-Other Device
3009005 Compressions-External Plunger Type Device is also an appropriate v3 replacement.			
99.602	CPR-AutoPulse Device	3009003	Compressions-External Band Type Device
99.603	CPR-Mechanical Thumper Type Device	3009007	Compressions-External Thumper Type Device
99.611	CPR-Start Compressions only without Ventilation	3009001	Compressions-Continuous
99.612	CPR-Start Rescue Breathing without Compressions	3009017	Ventilation-Mouth to Mouth
3009019 Ventilation-Pocket Mask is also an appropriate v3 replacement.			

*V2 Element***E19\_03 Procedure**

Procedure	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

*V3 Element***eCustomResults.01 Custom Data Element Result**

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

Extends eProcedures.03

**Comment****Mapping***V2 Pattern*

100.200	Extrication
100.300	Patient Loaded
100.301	Patient Loaded-Helicopter Hot-Load
100.302	Patient Off-Loaded
100.303	Patient Off-Loaded Helicopter Hot Off-Load
101.101	Specialty Center Activation-Adult Trauma
101.102	Specialty Center Activation-Pediatric Trauma
101.103	Specialty Center Activation-Cardiac Arrest
101.104	Specialty Center Activation-STEMI
101.105	Specialty Center Activation-Stroke
101.201	Activation-Advanced Hazmat Specialty Service/Response Team
101.203	Activation-Other Specialty Service/Response Team
101.204	Activation-Rescue Specialty Service/Response Team
101.206	Activation-Tactical or SWAT Specialty Service/Response Team
89.821	12 Lead ECG-Transmitted
96.992	Airway-Intubation Confirm Esophageal Bulb
99.615	CPR-Stop

*V3 Replacement*

100.200	Extrication
100.300	Patient Loaded
100.301	Patient Loaded-Helicopter Hot-Load
100.302	Patient Off-Loaded
100.303	Patient Off-Loaded Helicopter Hot Off-Load
101.101	Specialty Center Activation-Adult Trauma
101.102	Specialty Center Activation-Pediatric Trauma
101.103	Specialty Center Activation-Cardiac Arrest
101.104	Specialty Center Activation-STEMI
101.105	Specialty Center Activation-Stroke
101.201	Activation-Advanced Hazmat Specialty Service/Response Team
101.203	Activation-Other Specialty Service/Response Team
101.204	Activation-Rescue Specialty Service/Response Team
101.206	Activation-Tactical or SWAT Specialty Service/Response Team
89.821	12 Lead ECG-Transmitted
96.992	Airway-Intubation Confirm Esophageal Bulb
99.615	CPR-Stop

*V2 Element***E19\_03 Procedure**

Procedure	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

*V3 Element***eDisposition.24 Destination Team Pre-Arrival Alert or Activation**

DestinationPrearrivalActivation	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

*V2 Pattern*

101.101	Specialty Center Activation-Adult Trauma
101.102	Specialty Center Activation-Pediatric Trauma
101.103	Specialty Center Activation-Cardiac Arrest
101.104	Specialty Center Activation-STEMI
101.105	Specialty Center Activation-Stroke

*V3 Replacement*

4224003	Yes-Adult Trauma
4224011	Yes-Pediatric Trauma
4224005	Yes-Cardiac Arrest
4224013	Yes-STEMI
4224015	Yes-Stroke

*V2 Element*

## E19\_03 Procedure

*V3 Element*

## eProcedures.03 Procedure

Procedure		snomed	
Null Values	Yes	Null Values	Yes
Is Nillable	No	Is Nillable	Yes
Recurrence	1 : 1	Recurrence	1 : 1

## Comment

## Mapping

*V2 Pattern**V3 Replacement*

1.181	CNS Catheter-Epidural Maintenance	424432007	Epidural catheter maintenance
1.182	CNS Catheter-Intraventricular Maintenance	230937006	Procedure for monitoring intracranial pressure
Not precise.			
100.100	Rescue	83887000	Rescue vehicle
Rescue vehicle (a device, not a procedure) should only be used for v2.2.1 to v3.x mapping purposes. This description does not represent rescue efforts made by the responders to remove the patient from the environment.			
101.202	Activation-Fire Rehabilitation Specialty Service/Response Team	165189005	Medical evaluation for rehabilitation
Not precise.			
101.205	Activation-Social Services Notification/Referral	306238000	Referral to Social Services
101.500	Contact Medical Control	304562007	Informing doctor
31.110	Airway-Needle Cricothyrotomy	232689008	Percutaneous cricothyroidotomy
31.120	Airway-Surgical Cricothyrotomy	232692007	Open cricothyroidotomy
31.420	Airway-Direct Laryngoscopy	78121007	Direct laryngoscopy
31.421	Airway-Video Laryngoscopy	673005	Indirect laryngoscopy
34.041	Chest Decompression	182705007	Tension pneumothorax relief
34.042	Chest Tube Placement	264957007	Insertion of pleural tube drain
37.000	Pericardiocentesis	309849004	Pericardiocentesis
37.611	Intra-Aortic Balloon Pump Maintenance	34475007	Intraaortic balloon pump maintenance
37.612	Left Ventricular Assist Device Maintenance	386237008	Circulatory care: mechanical assist device
38.910	Arterial Access-Blood Draw	55841001	Arterial puncture for withdrawal of blood for diagnosis
38.990	Venous Access-Blood Draw	396540005	Phlebotomy
38.991	Venous Access-Existing Catheter	397901004	Pre-existing line accessed
38.992	Venous Access-Extremity	392230005	Catheterization of vein
38.993	Venous Access-External Jugular Line	405427009	Catheterization of external jugular vein
38.994	Venous Access-Femoral Line	405442007	Catheterization of common femoral vein
38.995	Blood Glucose Analysis	33747003	Glucose measurement, blood
39.995	Venous Access-Internal Jugular Line	405425001	Catheterization of internal jugular vein
39.996	Venous Access-Subclavian Line	405430002	Catheterization of subclavian vein
39.997	Venous Access-Discontinue	103715008	Removal of catheter
424287005 Removal of peripheral intravenous catheter is also an appropriate v3 replacement.			
39.998	Venous Access-Umbilical Vein Cannulation	42550007	Catheterization of umbilical vein

41.920	Venous Access-Intraosseous Adult	430824005	Intraosseous cannulation
41.921	Venous Access-Intraosseous Pediatric	430824005	Intraosseous cannulation
57.940	Urinary Catheterization	410024004	Insertion of catheter into urinary bladder
73.590	Childbirth	236973005	Delivery procedure
79.700	Joint Reduction/Relocation	58825001	Closed reduction of dislocation
86.090	Escharotomy	70177008	Escharotomy
86.280	Decontamination	409530006	Decontamination
89.391	Capnography (CO2 Measurement)	284029005	Respired carbon dioxide monitoring
89.392	Pulse Oximetry	252465000	Pulse oximetry
89.510	Cardiac Monitor	88140007	Cardiac monitor surveillance
89.590	Orthostatic Blood Pressure Measurement	425058005	Taking orthostatic vital signs
89.599	"Patient Monitoring of Pre-existing Devices, Equipment, or Ongoing Medications"	182777000	Monitoring of patient
89.610	Arterial Line Maintenance	422744007	Arterial catheter care
89.620	Venous Access-Central Line Maintenance	226005007	Care of central line
89.640	Venous Access-Swan Ganz Maintenance	42340005	Pulmonary artery wedge pressure monitoring
89.700	Assessment-Adult	422440002	Adult continuous physical assessment
89.701	Assessment-Pediatric	423850004	Pediatric continuous physical assessment
423589000 Newborn continuous physical assessment may also be an appropriate v3 replacement.			
89.702	Pain Measurement	225399009	Pain assessment (procedure)
89.703	Temperature Measurement	56342008	Temperature taking (procedure)
89.704	Thrombolytic Screen	20135006	Screening procedure
Not precise.			
89.820	12 Lead ECG-Obtain	268400002	12 lead ECG
93.055	Wound Care-Taser Barb Removal	302421003	Removal of foreign body from skin
Not precise.			
93.056	Wound Care-Tourniquet	20655006	Application of tourniquet
93.057	Wound Care-General	225358003	Wound care
93.058	Wound Care-Irrigation	225116006	Irrigation of wound
93.059	Wound Care-Hemostatic Agent	372045002	Application of chemical hemostatic agents
93.350	"Patient Warming (Hot Pack, etc.)"	431949004	Active external warming of subject
93.450	Splinting-Traction	302488007	Application of traction using a traction device
59900003 Manual and mechanical traction is also an appropriate v3 replacement.			
93.540	Splinting-Basic	79321009	Application of splint
93.580	MAST	448970001	Application of pressure trouser (procedure)
93.591	Spinal Immobilization	426498007	Stabilization of spine
398041008 Cervical spine immobilization is also an appropriate v3 replacement.			
93.900	Airway-CPAP	47545007	Continuous positive airway pressure ventilation treatment
93.910	Airway-Respirator Operation (BLS)	40617009	Artificial respiration
93.930	Airway-Bagged (via tube)	243140006	Lung inflation by intermittent compression of reservoir bag
93.931	Airway-Bagged (via BVMask)	425447009	Bag valve mask ventilation
93.940	Airway-Nebulizer Treatment	56251003	Nebulizer treatment
96.010	Airway-Nasal	182692007	Nasopharyngeal airway insertion
96.020	Airway-Oral	7443007	Insertion of oropharyngeal airway
96.030	Airway-EOA/EGTA	232673005	Obturator airway insertion
96.040	Airway-Orotracheal Intubation	232674004	Orotracheal intubation



96.041	Airway-Nasotracheal Intubation	232679009	Nasotracheal intubation
96.042	Airway-Rapid Sequence Induction	241689008	Rapid sequence induction
96.051	Airway-Combitube Blind Insertion Airway Device	429705000	Insertion of esophageal tracheal combitube
96.052	Airway-Laryngeal Mask Blind Insertion Airway Device	424979004	Laryngeal mask airway insertion
96.053	Airway-King LT Blind Insertion Airway Device	450611000124100	Insertion of Single Lumen Supraglottic Airway Device
96.070	Gastric Tube Insertion-Inserted Nasally	87750000	Insertion of nasogastric tube
96.071	Gastric Tube Insertion-Inserted Orally	235425002	Insertion of orogastric tube
96.700	Airway-Ventilator Operation	8948006	Assisted ventilation therapy, pressure or volume preset, initiation and management
96.701	Airway-Ventilator with PEEP	45851008	Positive end expiratory pressure ventilation therapy, initiation and management
96.702	Airway-BiPAP	243142003	Dual pressure spontaneous ventilation support
96.703	Airway-Impedance Threshold Device	441893003	Active compression decompression cardiopulmonary resuscitation with use of inspiratory impedance threshold device
96.790	Airway-PEEP	45851008	Positive end expiratory pressure ventilation therapy, initiation and management
96.991	Airway-Intubation Confirm Colorimetric ETCO2	428482009	Colorimetric respired carbon dioxide monitoring
96.993	Airway-Extubation	232708009	Removal of device from airway
97.230	Airway-Change Tracheostomy Tube	2267008	Changing tracheostomy tube
97.231	Airway-Intubation of Existing Tracheostomy Stoma	232685002	Insertion of tracheostomy tube
98.130	"Airway-Cleared, Opened, or Heimlich"	232707004	Removal of foreign body from airway
v2 value 98.131 Airway-Foreign Body Removal also maps to this v3 value. 23690002 Heimlich maneuver is also an appropriate v3 replacement.			
98.131	Airway-Foreign Body Removal	232707004	Removal of foreign body from airway
98.150	Airway-Suctioning	230040009	Airway suction technique
99.290	Injections-SQ/IM	24456005	Injection of soft tissue
76601001 Intramuscular injection and 32282008 Subcutaneous injection are among the children of this code.			
99.600	CPR-Start Compressions and Ventilations	89666000	Cardiopulmonary resuscitation
99.601	CPR by Other External Automated Device	429283006	Mechanically assisted chest compression
Unable to distinguish from AutoPulse or Mechanical Thumper Type Device.			
99.602	CPR-AutoPulse Device	429283006	Mechanically assisted chest compression
Unable to distinguish from Mechanical Thumper or Other External Automated Device.			
99.603	CPR-Mechanical Thumper Type Device	429283006	Mechanically assisted chest compression
Unable to distinguish from AutoPulse or Other External Automated Device.			
99.604	CPR-Precordial Thump Only	225708008	Precordial thump
99.611	CPR-Start Compressions only without Ventilation	69779005	Cardiac resuscitation
99.612	CPR-Start Rescue Breathing without Compressions	37113006	Mouth-to-mouth resuscitation
11140008 Respiratory assist, manual is also an appropriate v3 replacement.			
99.621	Defibrillation-Automated (AED)	450661000124102	Defibrillation using automated external cardiac defibrillator
99.622	Defibrillation-Manual	426220008	External ventricular defibrillation
Unable to distinguish from automated defibrillation.			
99.623	Cardioversion	250980009	Cardioversion
99.624	Cardiac Pacing-External	59218006	Temporary transcutaneous pacing
99.625	Defibrillation-Placement for Monitoring/Analysis	23852006	Cardiac monitoring
99.626	Cardiac Pacing-Transvenous	233178005	Insertion of endocardial electrode for temporary cardiac pacing
99.640	Vagal Maneuver-Carotid Massage	448334008	Carotid sinus massage test
99.641	Vagal Maneuver-Valsalva or Other Vagal Maneuver (Not Carotid Massage)	128968000	Vagal stimulation physiologic challenge

99.810	"Patient Cooling (Cold Pack, etc.)"	431774007	Active external cooling of subject
99.811	Patient Cooling-Post Resuscitation	430189000	Hypothermia induction therapy
99.841	Restraints-Pharmacological	406164000	Chemical restraint
99.842	Restraints-Physical	386423001	Physical restraint

V2 Element

E19\_04 Size of Procedure Equipment

SizeOfProcedureEquipment	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

V3 Element

eProcedures.04 Size of Procedure Equipment

SizeOfProcedureEquipment	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E19\_05 Number of Procedure Attempts

NumberOfProcedureAttempts	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

V3 Element

eProcedures.05 Number of Procedure Attempts

NumberOfProcedureAttempts	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

v2 allows -25 to 100. v3 allows 1 to 10.

Mapping

V2 Pattern

.>=1 and .<=10

V3 Replacement

.

V2 Element

E19\_06 Procedure Successful

YesNoValues	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

0	No
1	Yes

V3 Element

eProcedures.06 Procedure Successful

YesNoValues	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

9923001	No
9923003	Yes

*V2 Element***E19\_07 Procedure Complication**

ProcedureComplication	
Null Values	Yes
Is Nillable	No
Recurrence	1 : M

*V3 Element***eAirway.08 Airway Complications Encountered**

ComplicationsEncountered	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : M

**Comment**

This mapping is correlated with the mapping of E19\_03 Procedure to eAirway.03 Airway Device Being Confirmed.

**Mapping***V2 Pattern*

4520 Bradycardia

Not precise.

4535 Esophageal Intubation-other

Not precise.

4560 Hypoxia

Not precise.

4565 Injury

Not precise.

4595 Vomiting

*V3 Replacement*

4008003 Bradycardia (<50)

4008007 Esophageal Intubation-Delayed Detection  
(After Tube Secured)

4008017 Oxygen Desaturation (<90%)

4008013 Injury or Trauma to Patient from Airway  
Management Effort

4008019 Patient Vomiting/Aspiration

*V2 Element***E19\_07 Procedure Complication**

ProcedureComplication	
Null Values	Yes
Is Nillable	No
Recurrence	1 : M

Comment

Mapping

*V3 Element***eProcedures.07 Procedure Complication**

ProcedureComplication	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

*V2 Pattern*

4500	None
4505	Altered Mental Status
4510	Apnea
4515	Bleeding
4520	Bradycardia
4525	Diarrhea
4530	Esophageal Intubation-immediately
4535	Esophageal Intubation-other
4540	Extravasation
4545	Hypertension
4550	Hyperthermia
4555	Hypotension
4560	Hypoxia
4565	Injury
4570	Itching/Urticaria
4570	Itching/Urticaria
4570	Itching/Urticaria
4575	Nausea
4580	Other

v3 supports additional specific values.

4585	Respiratory Distress
4590	Tachycardia
4595	Vomiting

*V3 Replacement*

3907033	None
3907001	Altered Mental Status
3907003	Apnea
3907005	Bleeding
3907047	Bradycardia
3907009	Diarrhea
3907011	Esophageal Intubation-immediately
3907013	Esophageal Intubation-other
3907015	Extravasation
3907017	Hypertension
3907019	Hyperthermia
3907021	Hypotension
3907025	Hypoxia
3907027	Injury
3907029	Itching/Urticaria
3907049	Itching
3907051	Urticaria
3907031	Nausea
3907035	Other
3907039	Respiratory Distress
3907041	Tachycardia
3907045	Vomiting

V2 Element

E19\_08 Response to Procedure

ResponseToProcedure	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

4600	Improved
4605	Unchanged
4610	Worse

V3 Element

eProcedures.08 Response to Procedure

Response	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

9916001	Improved
9916003	Unchanged
9916005	Worse



V2 Element

E19\_09 Procedure Crew Members ID

CrewMemberID	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

eAirway.07 Crew Member ID

CrewMemberID	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

Comment

This mapping is correlated with the mapping of E19\_03 Procedure to eAirway.04 Airway Device Placement Confirmed Method.

Mapping

V2 Pattern

V3 Replacement

V2 Element

E19\_09 Procedure Crew Members ID

CrewMemberID	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eProcedures.09 Procedure Crew Members ID

CrewMemberID	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

*V2 Element***E19\_10 Procedure Authorization**

ProcedureAuthorization	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

*V3 Element***eProcedures.11 Procedure Authorization**

TxAuthorization	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment
---------

Mapping
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*V2 Pattern*

4615	On-Line
4620	On-Scene
4625	Protocol (Standing Order)
4630	Written Orders (Patient Specific)

*V3 Replacement*

9918001	On-Line (Remote Verbal Order)
9918003	On-Scene
9918005	Protocol (Standing Order)
9918007	Written Orders (Patient Specific)

V2 Element

E19\_11 Procedure Authorizing Physician

ProcedureAuthorizingPhysician	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

v2 defines as the last name. v3 defines as the name.

Mapping

V2 Pattern

.

V3 Element

eProcedures.12 Procedure Authorizing Physician

PersonName	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

*V2 Element***E19\_12 Successful IV Site**

SuccessfulIVSite	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

*V3 Element***eCustomResults.01 Custom Data Element Result**

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

Comment
---------

Mapping
---------

*V2 Pattern*

4635	Antecubital-Left
4640	Antecubital-Right
4645	External Jugular-Left
4650	External Jugular-Right
4655	Femoral-Left IV
4660	Femoral-Left Distal IO
4665	Femoral-Right IV
4670	Femoral-Right IO
4675	Forearm-Left
4680	Forearm-Right
4685	Hand-Left
4690	Hand-Right
4695	Lower Extremity-Left
4700	Lower Extremity-Right
4705	Other
4710	Scalp
4715	Sternal IO
4720	Tibia IO-Left
4725	Tibia IO-Right
4730	Umbilical

*V3 Replacement*

4635	Antecubital-Left
4640	Antecubital-Right
4645	External Jugular-Left
4650	External Jugular-Right
4655	Femoral-Left IV
4660	Femoral-Left Distal IO
4665	Femoral-Right IV
4670	Femoral-Right IO
4675	Forearm-Left
4680	Forearm-Right
4685	Hand-Left
4690	Hand-Right
4695	Lower Extremity-Left
4700	Lower Extremity-Right
4705	Other
4710	Scalp
4715	Sternal IO
4720	Tibia IO-Left
4725	Tibia IO-Right
4730	Umbilical

*V2 Element***E19\_13 Tube Confirmation**

TubeConfirmation	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

## Mapping

*V3 Element***eAirway.04 Airway Device Placement Confirmed Method**

DeviceConfirmedMethods	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : M

*V2 Pattern*

4735	Auscultation of Bilateral Breath Sounds
4740	Colormetric CO2 Detector Confirmation
4745	Digital CO2 Confirmation
4750	Esophageal Bulb Aspiration confirmation
4755	Negative Auscultation of the Epigastrium
Not supported in v3.	
4760	Visualization of the Chest Rising with ventilation
Not supported in v3.	
4765	Visualization of Tube Passing Through the Cords
4770	Waveform CO2 Confirmation

*V3 Replacement*

4004001	Auscultation
4004005	Colorimetric ETCO2
4004009	Digital (Numeric) ETCO2
4004003	Bulb/Syringe Aspiration
4004015	Other
4004015	Other
4004017	Visualization of Vocal Cords
4004019	Waveform ETCO2

*V2 Element***E19\_14 Destination Confirmation of Tube Placement**

DestinationConfirmationOfTubePlacement	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

*V3 Element***eAirway.04 Airway Device Placement Confirmed Method**

DeviceConfirmedMethods	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : M

**Comment**

v3 eAirway.06 Type of Individual Confirming Airway Device Placement is set to 4006009 Receiving Hospital Team. 4006007 Receiving Air Medical/EMS Crew may also be an appropriate v3 value.

**Mapping***V2 Pattern*

4775	Auscultation of Bilateral Breath Sounds
4780	Colormetric CO2 Detector Confirmation
4785	Digital CO2 Confirmation
4790	Esophageal Bulb Aspiration confirmation
4795	Negative Auscultation of the Epigastrium
Not supported in v3.	
4800	Visualization of the Chest Rising with ventilation
Not supported in v3.	
4805	Visualization of Tube Passing Through the Cords
4810	Waveform CO2 Confirmation

*V3 Replacement*

4004001	Auscultation
4004005	Colorimetric ETCO2
4004009	Digital (Numeric) ETCO2
4004003	Bulb/Syringe Aspiration
4004015	Other
4004015	Other
4004017	Visualization of Vocal Cords
4004019	Waveform ETCO2

V2 Element

E20\_01 Destination/Transferred To, Name

DestinationTransferredToID	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eDisposition.01 Destination/Transferred To, Name

DestinationTransferredToName	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.



V2 Element

E20\_02 Destination/Transferred To, Code

DestinationTransferredToCode	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eDisposition.02 Destination/Transferred To, Code

DestinationTransferredToCode	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E20\_03 Destination Street Address

StreetAddress	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eDisposition.03 Destination Street Address

StreetAddress	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E20\_04 Destination City

City	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

eDisposition.04 Destination City

CityGnisCode	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v2 allows length 2 to 30 and specifies the use of FIPS. v3 allows any Positive Integer and specifies the use of GNIS. To add mappings, add entries to v2v3ValueMappingvCity or load them from files downloaded from the "State Files with Federal Codes" section at [http://geonames.usgs.gov/domestic/download\\_data.htm](http://geonames.usgs.gov/domestic/download_data.htm). If multiple mappings exist for a FIPS code within a state, priority is given to codes with a census class code that starts with "C", then "P".

Mapping

V2 Pattern

51000                      City of New York

V3 Replacement

2395220                      City of New York

V2 Element

E20\_05 Destination State

State	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

eDisposition.05 Destination State

ANSIStateCode	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

Maps from FIPS 5 to ANSI INCITS 38. The transition was an oversight change only. There were no changes in the numeric codes. v2 allows length 2 to 3. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[0-9]{2}\$')

V3 Replacement

.  
00

This mapping is used when the v3 element is mandatory and the v2 element is missing or contains a null value.

V2 Element

E20\_06 Destination County

County	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

eDisposition.06 Destination County

ANISCountyCode	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

Maps from FIPS 6 to ANSI INCITS 31. The transition was an oversight change only. There were no changes in the numeric codes. v2 allows length 2 to 5. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^[0-9]{5}\$')

V3 Replacement

.

V2 Element

E20\_07 Destination Zip Code

Zip	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

V3 Element

eDisposition.07 Destination ZIP Code

ZIP	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

v2 allows any String, unconstrained. v3 specifies a pattern.

Mapping

V2 Pattern

matches(normalize-space(.),'^([0-9]{5})|([0-9]{5})-([0-9]{4})|([0-9]{5})-([0-9]{5})|([A-Z][0-9][A-Z] [0-9][A-Z][0-9])\$')

V3 Replacement

normalize-space(.)

V2 Element

E20\_08 Destination GPS Location

GPSLocation	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

matches(concat(xs:decimal(@Lat),'',xs:decimal(@Long)),'^(\+|-)?(90(\.[0]{1,6})?|([1-8][0-9][0-9])(\.[0-9]{1,6})?),(\+|-)?(180(\.[0]{1,6})?|(1[0-7][0-9][1-9][0-9][0-9])(\.[0-9]{1,6})?)\$')

V3 Element

eDisposition.09 Destination GPS Location

GPSLocation	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

concat(xs:decimal(@Lat),'',xs:decimal(@Long))

*V2 Element*

E20\_09 Destination Zone Number

ZoneNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

*V2 Pattern*

.

*V3 Element*

eCustomResults.01 Custom Data Element Result

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

*V3 Replacement*

.



*V2 Element***E20\_10 Incident/Patient Disposition**

IncidentPatientDisposition	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

**Comment****Mapping***V2 Pattern*

.=4835 and .././E05/E05\_10!="

**Patient Refused Care**

This mapping is used when destination arrival date/time is present.

.=4820 and .././E11/E11\_03[.=2280 or .=2285 or .=2290] and .././E05/E05\_10!="

**Dead at Scene**

This mapping is used when E11\_03 indicates resuscitation was attempted and destination arrival date/time is present.

.=4820 and .././E05/E05\_10!="

**Dead at Scene**

This mapping is used when E11\_03 does not indicate resuscitation was attempted and destination arrival date/time is present.

.=4820 and .././E11/E11\_03[.=2280 or .=2285 or .=2290]

**Dead at Scene**

This mapping is used when E11\_03 indicates resuscitation was attempted and destination arrival date/time is not present.

4815	Cancelled	4212007	Canceled (Prior to Arrival At Scene)
4820	Dead at Scene	4212015	Patient Dead at Scene-No Resuscitation Attempted (Without Transport)
4825	No Patient Found	4212011	Canceled on Scene (No Patient Found)
4830	No Treatment Required	4212021	Patient Evaluated, No Treatment/Transport Required
4835	Patient Refused Care	4212025	Patient Refused Evaluation/Care (Without Transport)
This mapping is used when destination arrival date/time is not present.			
4840	Treated and Released	4212029	Patient Treated, Released (per protocol)
4212027 Patient Treated, Released (AMA) is also an appropriate v3 replacement.			
4845	Treated, Transferred Care	4212031	Patient Treated, Transferred Care to Another EMS Unit
4850	Treated, Transported by EMS	4212033	Patient Treated, Transported by this EMS Unit
4855	Treated, Transported by Law Enforcement	4212035	Patient Treated, Transported by Law Enforcement
4860	Treated, Transported by Private Vehicle	4212037	Patient Treated, Transported by Private Vehicle

*V3 Element***eDisposition.12 Incident/Patient Disposition**

IncidentPatientDisposition	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

*V3 Replacement*

4212023 Patient Refused Evaluation/Care (With Transport)

4212017 Patient Dead at Scene-Resuscitation Attempted (With Transport)

4212013 Patient Dead at Scene-No Resuscitation Attempted (With Transport)

4212019 Patient Dead at Scene-Resuscitation Attempted (Without Transport)

V2 Element

E20\_11 How Patient Was Moved to Ambulance

HowPatientWasMovedToAmbulance	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

eDisposition.13 How Patient Was Moved to Ambulance

HowPatientWasMovedToFromAmbulance	
Null Values	No
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

V2 Pattern

4865	Assisted/Walk
4870	Carry
4875	Stairchair
4880	Stretcher
4885	Other

V3 Replacement

9909001	Assisted/Walk
9909007	Carried
9909011	Stairchair
9909013	Stretcher
9909009	Other

v3 supports additional specific values.

*V2 Element***E20\_12 Position of Patient During Transport**

PositionOfPatientDuringTransport	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

*V2 Pattern*

4890	Car Seat
4895	Fowlers
4900	Lateral
4214007 Lateral Right is also an appropriate v3 replacement.	
4905	Prone
4910	Semi-Fowlers
4915	Sitting
4920	Supine
4925	Other

v3 supports additional specific values.

*V3 Element***eDisposition.14 Position of Patient During Transport**

PositionOfPatientDuringTransport	
Null Values	No
Is Nillable	No
Recurrence	0 : M

*V3 Replacement*

4214001	Car Seat
4214003	Fowlers (Semi-Upright Sitting)
4214005	Lateral Left
4214011	Prone
4214013	Semi-Fowlers
4214015	Sitting
4214017	Supine
4214009	Other

V2 Element

E20\_13 How Patient Was Transported From Ambulance

HowPatientWasTransportedFromAmbulance	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

4930	Assisted/Walk
4935	Carry
4940	Stairchair
4945	Stretcher
4950	Other

V3 Element

eDisposition.15 How Patient Was Transported From Ambulance

HowPatientWasMovedToFromAmbulance	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

9909001	Assisted/Walk
9909007	Carried
9909011	Stairchair
9909013	Stretcher
9909009	Other

v3 supports additional specific values.

*V2 Element***E20\_14 Transport Mode from Scene***V3 Element***eDisposition.17 Transport Mode from Scene**

TransportModeFromScene		TransportModeFromScene	
Null Values	Yes	Null Values	Yes
Is Nillable	No	Is Nillable	Yes
Recurrence	1 : 1	Recurrence	1 : 1

**Comment**

Not precise, but eDisposition.17 is mandatory in v3.

**Mapping***V2 Pattern*

4955	Initial Lights and Sirens, Downgraded to No Lights or Sirens
Not precise.	
4960	Initial No Lights or Sirens, Upgraded to Lights and Sirens
Not precise.	
4965	Lights and Sirens
Not precise.	
4970	No Lights or Sirens
Not precise.	

*V3 Replacement*

4217003	Emergent Downgraded to Non-Emergent
4217007	Non-Emergent Upgraded to Emergent
4217001	Emergent (Immediate Response)
4217005	Non-Emergent

V2 Element

E20\_14 Transport Mode from Scene

TransportModeFromScene	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

V2 Pattern

4955	Initial Lights and Sirens, Downgraded to No Lights or Sirens
4960	Initial No Lights or Sirens, Upgraded to Lights and Sirens
4965	Lights and Sirens
4970	No Lights or Sirens

V3 Element

eDisposition.18 Additional Transport Mode Descriptors

AdditionalTransportModeDescriptors	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

V3 Replacement

4218019	Initial Lights and Sirens, Downgraded to No Lights or Sirens
4218017	Initial No Lights or Sirens, Upgraded to Lights and Sirens
4218011	Lights and Sirens
4218015	No Lights or Sirens

V2 Element

E20\_15 Condition of Patient at Destination

ConditionOfPatientAtDestination	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

eCustomResults.01 Custom Data Element Result

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

Extends eDisposition.19

Comment

Mapping

V2 Pattern

4975	Improved
4980	Unchanged
4985	Worse

V3 Replacement

4975	Improved
4980	Unchanged
4985	Worse

*V2 Element***E20\_16 Reason for Choosing Destination**

ReasonForChoosingDestination	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

*V3 Element***eDisposition.20 Reason for Choosing Destination**

ReasonForChoosingDestination	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

*V2 Pattern*

4990	Closest Facility (none below)
4995	Diversion
5000	Family Choice
5005	Insurance Status
5010	Law Enforcement Choice
5015	On-Line Medical Direction
5020	Other
5025	Patient Choice
5030	Patient's Physicians Choice
5035	Protocol
5040	Specialty Resource Center

*V3 Replacement*

4220001	Closest Facility
4220003	Diversion
4220005	Family Choice
4220007	Insurance Status/Requirement
4220009	Law Enforcement Choice
4220011	On-Line/On-Scene Medical Direction
4220013	Other
4220015	Patient's Choice
4220017	Patient's Physician's Choice
4220019	Protocol
4220021	Regional Specialty Center



*V2 Element***E20\_17 Type of Destination**

TypeOfDestination	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

*V3 Element***eDisposition.21 Type of Destination**

TypeOfDestination	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

*V2 Pattern*

7270	Home
7280	Hospital
4221005 Hospital-Non-Emergency Department Bed and 4221023 Freestanding Emergency Department are also appropriate v3 replacements.	
7290	Medical Office/Clinic
4221021 Urgent Care is also an appropriate v3 replacement.	
7300	Morgue
7320	Nursing Home
7330	Other
7340	Other EMS Responder (air)
7350	Other EMS Responder (ground)
7360	Police/Jail

*V3 Replacement*

4221001	Home
4221003	Hospital-Emergency Department
4221007	Medical Office/Clinic
4221009	Morgue/Mortuary
4221011	Nursing Home/Assisted Living Facility
4221013	Other
4221015	Other EMS Responder (air)
4221017	Other EMS Responder (ground)
4221019	Police/Jail

V2 Element

E21\_01 Event Date/Time

DateTime	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

V3 Element

eDevice.02 Date/Time of Event (per Medical Device)

DateTimeType	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}: [0-9]{2}.

Mapping

V2 Pattern

.!="

V3 Replacement

adjust-dateTime-to-timezone(.)

V2 Element

E21\_01 Event Date/Time

DateTime	
Null Values	No
Is Nillable	Yes
Recurrence	0 : 1

V3 Element

eVitals.01 Date/Time Vital Signs Taken

DateTimeType	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

Comment

v3 uses a pattern to require a timezone offset: (\+|-)[0-9]{2}:[0-9]{2}.

Mapping

V2 Pattern

.!=""

V3 Replacement

adjust-dateTime-to-timezone(.)

*V2 Element***E21\_02 Medical Device Event Name**

MedicalDeviceEventID	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

*V3 Element***eDevice.03 Medical Device Event Type**

MedicalDeviceEventType	
Null Values	No
Is Nillable	No
Recurrence	0 : M

Comment
---------

Mapping
---------

*V2 Pattern*

5090	12-Lead ECG
5095	Analysis (Button Pressed)
5100	CO2
5105	Date Transmitted
5110	Defibrillation
5115	ECG-Monitor
5120	Heart Rate
5125	Invasive Pressure 1
5130	Invasive Pressure 2
5135	No Shock Advised
5140	Non-Invasive BP
5145	Pacing Electrical Capture
5150	Pacing Started
5155	Pacing Stopped
5160	Patient Connected
5165	Power On
5170	Pulse Oximetry
5175	Pulse Rate
5180	Respiratory Rate
5185	Shock Advised
5190	Sync Off
5195	Sync On

*V3 Replacement*

4103001	12-Lead ECG
4103003	Analysis (Button Pressed)
4103005	CO2
4103007	Date Transmitted
4103009	Defibrillation
4103011	ECG-Monitor
4103013	Heart Rate
4103015	Invasive Pressure 1
4103017	Invasive Pressure 2
4103019	No Shock Advised
4103021	Non-Invasive BP
4103025	Pacing Electrical Capture
4103027	Pacing Started
4103029	Pacing Stopped
4103031	Patient Connected
4103033	Power On
4103035	Pulse Oximetry
4103037	Pulse Rate
4103039	Respiratory Rate
4103041	Shock Advised
4103043	Sync Off
4103045	Sync On

V2 Element

E21\_03 Waveform Graphic Type

WaveformGraphicType	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

5200	JPG
5205	PDF

V3 Element

eDevice.04 Medical Device Waveform Graphic Type

GraphicType	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

jpeg
pdf

V2 Element

E21\_04 Waveform Graphic

WaveformGraphic	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eDevice.05 Medical Device Waveform Graphic

WaveformGraphic	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E21\_05 AED, Pacing, or CO2 Mode

AEDPacingOrCO2Mode	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V3 Element

eDevice.06 Medical Device Mode (Manual, AED, Pacing, CO2, O2, etc)

AEDPacingOrCO2Mode	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V2 Pattern

5210	Automated
5215	Manual
5220	Advisory
5225	Demand
5230	Sensing
5235	Mid-Stream
5240	Side-Stream

V3 Replacement

4106003	Automated
4106007	Manual
4106001	Advisory
4106005	Demand
4106011	Sensing
4106009	Mid-Stream
4106013	Side-Stream

*V2 Element***E21\_06 ECG Lead**

ECGLead	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

*V3 Element***eDevice.07 Medical Device ECG Lead**

ECGLead	
Null Values	No
Is Nillable	No
Recurrence	0 : M

*V2 Pattern*

5245	I
5250	II
5255	III
5260	AVR
5265	AVL
5270	AVF
5275	V1
5280	V2
5285	V3
5290	V4
5295	V5
5300	V6
5305	Paddle

*V3 Replacement*

4107001	I
4107003	II
4107005	III
4107007	AVR
4107009	AVL
4107011	AVF
4107017	V1
4107019	V2
4107021	V3
4107025	V4
4107029	V5
4107033	V6
4107013	Paddle



V2 Element

E21\_07 ECG Interpretation

ECGInterpretation	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eDevice.08 Medical Device ECG Interpretation

ECGInterpretation	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E21\_08 Type of Shock

TypeOfShock	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

5310	Biphasic
5315	Monophasic

V3 Element

eDevice.09 Type of Shock

TypeOfShock	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

4109001	Biphasic
4109003	Monophasic

V2 Element

E21\_09 Shock or Pacing Energy

ShockOrPacingEnergy	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eDevice.10 Shock or Pacing Energy

ShockOrPacingEnergy	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E21\_10 Total Number of Shocks Delivered

TotalNumberOfShocks	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eDevice.11 Total Number of Shocks Delivered

TotalNumberOfShocks	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E21\_11 Pacing Rate

PacingRate	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eDevice.12 Pacing Rate

PacingRate	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

.

V2 Element

E21\_12 Device Heart Rate

PulseRate	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eVitals.10 Heart Rate

HeartRate	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

.

V2 Element

E21\_13 Device Pulse Rate

PulseRate	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eVitals.10 Heart Rate

HeartRate	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

.

V2 Element

E21\_14 Device Systolic Blood Pressure

SBP	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

V3 Element

eVitals.06 SBP (Systolic Blood Pressure)

SBP	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement



V2 Element

E21\_15 Device Diastolic Blood Pressure

DBP	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v2 allows 0 to 300. v3 allows 0 or 10-500 but not 1-9.

Mapping

V2 Pattern

number(.)>0 and number(.)<10

number(.)

V3 Element

eVitals.07 DBP (Diastolic Blood Pressure)

DBP	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

10

xs:integer(.)

V2 Element

E21\_16 Device Respiratory Rate

RespiratoryRate	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eVitals.14 Respiratory Rate

RespiratoryRate	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

.

V2 Element

E21\_17 Device Pulse Oximetry

CO2	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eVitals.12 Pulse Oximetry

PulseOximetry	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

.

V2 Element

E21\_18 Device CO2 or etCO2

CO2	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eVitals.16 End Tidal Carbon Dioxide (ETCO2)

CO2	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

.

V2 Element

E21\_20 Device Invasive Pressure Mean

DeviceInvasivePressureMean	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Element

eVitals.09 Mean Arterial Pressure

MAP	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v2 allows 1 to 1,000. v3 allows 1 to 500.

Mapping

V2 Pattern

../E21\_19=5320 and .\*7.5<=500  
not(../E21\_19=5320) and .<=500  
otherwise

V3 Replacement

.\*7.5  
.  
500

*V2 Element***E22\_01 Emergency Department Disposition**

EmergencyDepartmentDisposition	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

Mapping

*V2 Pattern*

5335	Admitted to Hospital Floor
5340	Admitted to Hospital ICU
5345	Death
5350	Not Applicable (Not Transported to ED)
5355	Released
Not precise.	
5360	Transferred
Not precise.	

*V3 Element***eOutcome.01 Emergency Department Disposition**

EmergencyDepartmentDisposition	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

*V3 Replacement*

09	Admitted as an inpatient to this hospital.
09	Admitted as an inpatient to this hospital.
20	Deceased/Expired (or did not recover - Religious Non Medical Health Care Patient)
<xsl:attribute name="xsi:nil">true</xsl:attribute><xsl:attribute name="NV">7701001</xsl:attribute>	
	Not Applicable
01	Discharged to home or self care (routine discharge)
02	Discharged/transferred to another short term general hospital for inpatient care

*V2 Element***E22\_02 Hospital Disposition**

HospitalDisposition	
Null Values	Yes
Is Nillable	No
Recurrence	1 : 1

Comment

## Mapping

*V2 Pattern*

5365	Death
5370	Discharged
5375	Transfer to Hospital
Not precise.	
5380	Transfer to Nursing Home
Not precise.	
5385	Transfer to Other
v3 supports additional specific values.	
5390	Transfer to Rehabilitation Facility
Not precise.	

*V3 Element***eOutcome.02 Hospital Disposition**

HospitalDisposition	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

*V3 Replacement*

20	Deceased/Expired (or did not recover - Religious Non Medical Health Care Patient)
01	Discharged to home or self care (routine discharge)
02	Discharged/transferred to another short term general hospital for inpatient care
03	Discharged/transferred to a skilled nursing facility (SNF)
05	Discharged/transferred to another type of institution not defined elsewhere in this code list
62	Discharged/transferred to a inpatient rehabilitation facility including distinct part units of a hospital.

V2 Element

E22\_03 Law Enforcement/Crash Report Number

LawEnforcementCrashReportNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

eOutcome.04 External Report ID/Number

ExternalReportID	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v3 eOutcome.03 External Report ID/Number Type is set to 4303009 Law Enforcement Report.

Mapping

V2 Pattern

.

V3 Replacement

.



V2 Element

E22\_04 Trauma Registry ID

TraumaRegistryID	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

eOutcome.04 External Report ID/Number

ExternalReportID	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v3 eOutcome.03 External Report ID/Number Type is set to 4303025 Trauma Registry.

Mapping

V2 Pattern

V3 Replacement

.

.

V2 Element

E22\_05 Fire Incident Report Number

FireIncidentReportNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

eOutcome.04 External Report ID/Number

ExternalReportID	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v3 eOutcome.03 External Report ID/Number Type is set to 4303003 Fire Incident Report.

Mapping

V2 Pattern

V3 Replacement

.

.

V2 Element

E22\_06 Patient ID Band/Tag Number

PatientIDBandTagNumber	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

V3 Element

eOutcome.04 External Report ID/Number

ExternalReportID	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

Comment

v3 eOutcome.03 External Report ID/Number Type is set to 4303017 Patient ID.

Mapping

V2 Pattern

V3 Replacement

V2 Element

E23\_01 Review Requested

YesNoValues	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

0	No
1	Yes

V3 Element

eOther.01 Review Requested

YesNoValues	
Null Values	No
Is Nillable	No
Recurrence	0 : 1

V3 Replacement

9923001	No
9923003	Yes

*V2 Element***E23\_02 Potential Registry Candidate**

PotentialRegistryCandidate	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment
---------

Mapping
---------

*V2 Pattern*

5395	Burn
5400	Cardiac/MI
5405	CVA/Stroke
5410	Drowning
5415	Spinal Cord Injury
5420	Trauma
5425	Traumatic Brain Injury
5430	Other

v3 supports additional specific values.

*V3 Element***eOther.02 Potential System of Care/Specialty/Registry Patient**

PotentialRegistryCandidate	
Null Values	No
Is Nillable	No
Recurrence	0 : M

*V3 Replacement*

4502003	Burn
4502005	Cardiac/MI
4502007	CVA/Stroke
4502009	Drowning
4502013	Spinal Cord Injury
4502017	Trauma
4502019	Traumatic Brain Injury
4502011	Other

V2 Element

E23\_03 Personal Protective Equipment Used

PersonalProtectiveEquipmentUsed	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

V2 Pattern

5435	Eye Protection
5440	Gloves
5445	Level A Suit
5450	Level B Suit
5455	Level C Suit
5460	Mask
4503017 Mask-Surgical (Non-Fitted) is also an appropriate v3 replacement.	
5465	Other

v3 supports additional specific values.

V3 Element

eOther.03 Personal Protective Equipment Used

PersonalProtectiveEquipmentUsed	
Null Values	No
Is Nillable	No
Recurrence	0 : M

V3 Replacement

4503001	Eye Protection
4503003	Gloves
4503007	Level A Suit
4503009	Level B Suit
4503011	Level C Suit
4503015	Mask-N95
4503019	Other

*V2 Element***E23\_04 Suspected Intentional, or Unintentional Disaster**

SuspectedIntentionalOrUnintentionalDisaster	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

*V3 Element***eOther.07 Natural, Suspected, Intentional, or Unintentional Disaster**

SuspectedIntentionalOrUnintentionalDisaster	
Null Values	No
Is Nillable	No
Recurrence	0 : M

*V2 Pattern*

5470	Biologic Agent
5475	Building Failure
5480	Chemical Agent
5485	Explosive Device
5490	Fire
5495	Hostage Event
5500	Mass Gathering
5505	Nuclear Agent
5510	Radioactive Device
5515	Secondary Destructive Device
5520	Shooting/Sniper
5525	Vehicular
5530	Weather

*V3 Replacement*

4507001	Biologic Agent
4507003	Building Failure
4507005	Chemical Agent
4507007	Explosive Device
4507009	Fire
4507011	Hostage Event
4507013	Mass Gathering
4507017	Nuclear Agent
4507019	Radioactive Device
4507021	Secondary Destructive Device
4507023	Shooting/Sniper
4507025	Vehicular
4507027	Weather

V2 Element

E23\_05 Suspected Contact with Blood/Body Fluids of EMS Injury or Death

YesNoValues	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

0	No
1	Yes

V3 Element

eOther.05 Suspected EMS Work Related Exposure, Injury, or Death

YesNoValues	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : 1

V3 Replacement

9923001	No
9923003	Yes



*V2 Element***E23\_06 Type of Suspected Blood/Body Fluid Exposure, Injury, or Death**

TypeOfSuspectedExposureToBodilyFluids	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

## Mapping

*V3 Element***eOther.06 The Type of Work-Related Injury, Death or Suspected Exposure**

TypeOfSuspectedExposureToBodilyFluids	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : M

*V2 Pattern*

5540 Contact to Broken Skin

5545 Contact to Intact Skin

5550 Contact with Eye

5555 Contact with Mucosal Surface

5560 Inhalation Exposure

5565 Needle Stick with Fluid Injection

5570 Needle Stick without Fluid Injection

5575 Other Physical injury

4506023 Injury-Lifting/Back/Musculoskeletal is also an appropriate v3 replacement.

5580 Death

4506001 Death-Cardiac Arrest and 4506003 Death-Injury Related are also appropriate v3 replacements.

5585 None

*V3 Replacement*

4506009 Exposure-Body Fluid Contact to Broken Skin

4506013 Exposure-Body Fluid Contact with Intact Skin

4506011 Exposure-Body Fluid Contact with Eye

4506015 Exposure-Body Fluid Contact with Mucosal Surface

4506007 Exposure-Airborne Respiratory/Biological/Aerosolized Secretions

4506017 Exposure-Needle Stick with Body Fluid Injection

4506019 Exposure-Needle Stick without Body Fluid Injection

4506025 Injury-Other

4506005 Death-Other

4506027 None

V2 Element

E23\_07 Personnel Exposed

PersonnelExposed	
Null Values	Yes
Is Nillable	No
Recurrence	0 : M

Comment

Mapping

V2 Pattern

5590	This EMS Crew
5595	Non-EMS individual
5600	Other EMS Personnel

V3 Element

eCustomResults.01 Custom Data Element Result

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

V3 Replacement

5590	This EMS Crew
5595	Non-EMS individual
5600	Other EMS Personnel

V2 Element

E23\_08 Required Reportable Conditions

YesNoValues	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

0	No
1	Yes

V3 Element

eCustomResults.01 Custom Data Element Result

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

V3 Replacement

9923001	No
9923003	Yes

V2 Element

E23\_09 Research Survey Field

ResearchField	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

.

V3 Element

eCustomResults.01 Custom Data Element Result

CustomResults	
Null Values	Yes
Is Nillable	Yes
Recurrence	1 : M

V3 Replacement

.

V2 Element

E23\_10 Who Generated this Report?

CrewMemberID	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

V3 Element

eOther.08 Crew Member Completing this Report

CrewMemberID	
Null Values	Yes
Is Nillable	Yes
Recurrence	0 : 1

V3 Replacement

V2 Element

E23\_11 Research Survey Field Title

ResearchTitle	
Null Values	Yes
Is Nillable	No
Recurrence	0 : 1

Comment

Mapping

V2 Pattern

normalize-space(.)='-10'      Not Known

This mapping is used when the v3 element is mandatory and the v2 element contains a null value.

normalize-space(.)='-15'      Not Reporting

This mapping is used when the v3 element is mandatory and the v2 element contains a null value.

normalize-space(.)='-20'      Not Recorded

This mapping is used when the v3 element is mandatory and the v2 element contains a null value.

normalize-space(.)='-25'      Not Applicable

This mapping is used when the v3 element is mandatory and the v2 element contains a null value.

normalize-space(.)='-5'      Not Available

This mapping is used when the v3 element is mandatory and the v2 element contains a null value.

otherwise

V3 Element

eCustomConfiguration.01 Custom Data Element Title

CustomTitle	
Null Values	No
Is Nillable	No
Recurrence	1 : 1

V3 Replacement

'Not Known'

'Not Reporting'

'Not Recorded'

'Not Applicable'

'Not Available'

Missing

.