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Model Documentation

Model Detail

This document provides a complete overview of all element details. For simpler and more focused reports, simply copy this initial template and turn off the sections not required.

EMS Domain Analysis Model

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Logical View
Detail: Created on 7/15/2009. Last modified on 7/15/2009
GUID: {1E89D854-DB51-4d14-855F-95DF09F09DB9}

EMS Domain Analysis Model - (Package diagram)

Created By: AbdulMalik Shakir on 7/19/2009
Last Modified: 8/26/2009
Version: 1.0. *Locked:* False
GUID: {E7831087-9853-4981-8BC9-63EFF6848391}

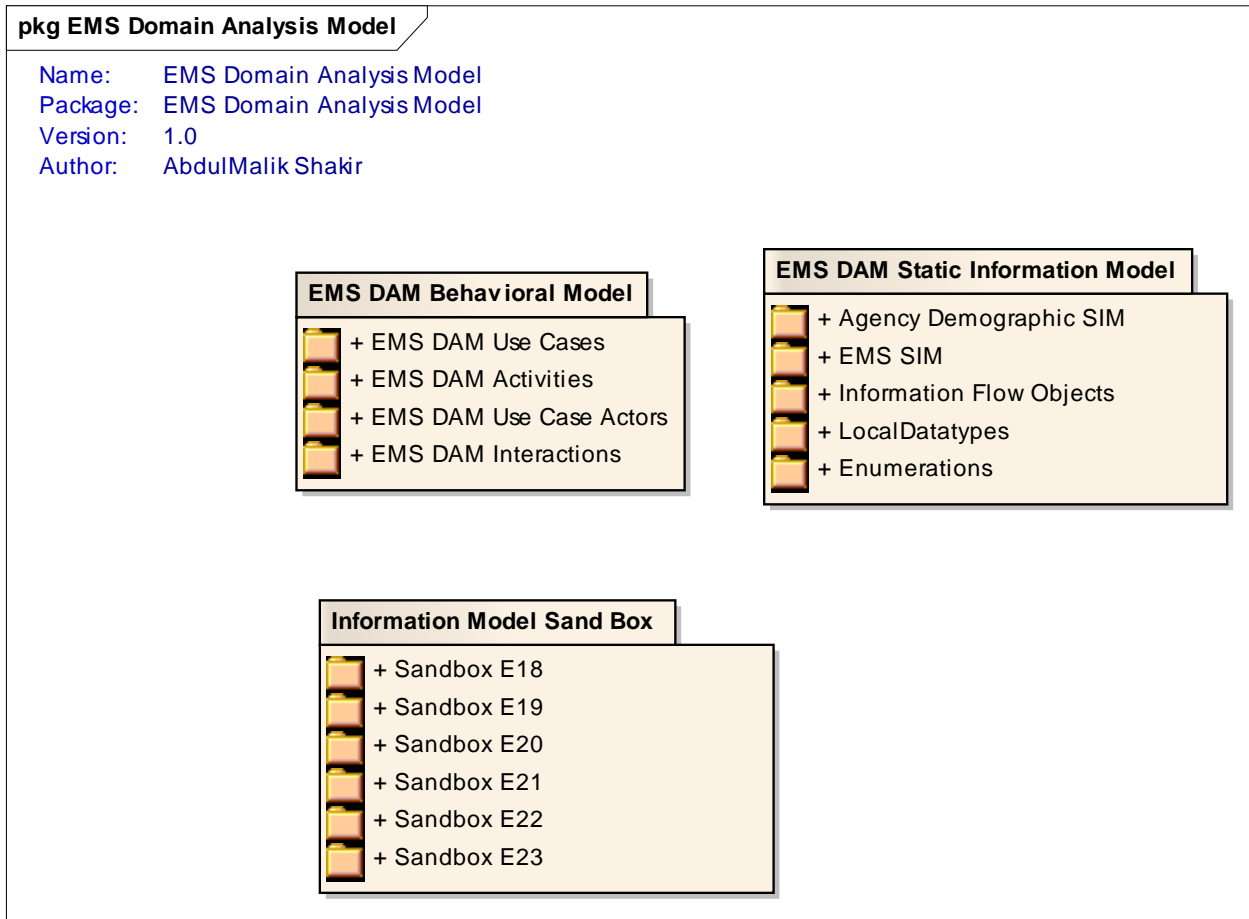


Figure: 1

EMS DAM Behavioral Model

Type: Package
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS Domain Analysis Model
Detail: Created on 8/25/2009. Last modified on 8/25/2009
GUID: {2B2B8C65-13A6-4d4f-B88B-383C6D4E31FC}

EMS DAM Behavioral Model - (Package diagram)

Created By: AbdulMalik Shakir on 7/19/2009
Last Modified: 8/25/2009
Version: 1.0. *Locked:* False
GUID: {BC46877B-3805-441b-8A26-7198B136A7A6}

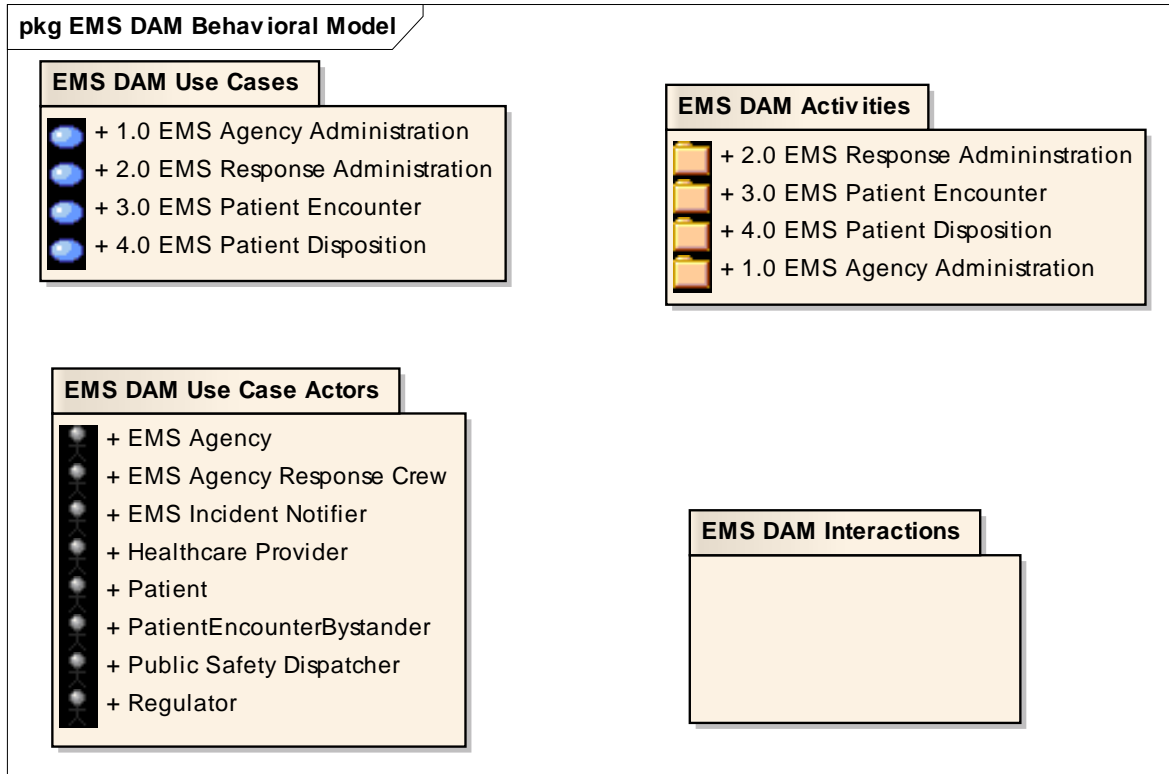


Figure: 2

EMS DAM Use Cases

Type: Package
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Behavioral Model
Detail: Created on 7/19/2009. Last modified on 7/19/2009

GUID: {12B308A2-E9C8-44ad-8EE7-6049E49E79A5}

EMS DAM Use Case Model - (Use Case diagram)

Created By: AbdulMalik Shakir on 7/13/2009

Last Modified: 7/19/2009

Version: 1.0. **Locked:** False

GUID: {68B2D927-A7BB-42e7-B036-5C41B10BCF9A}

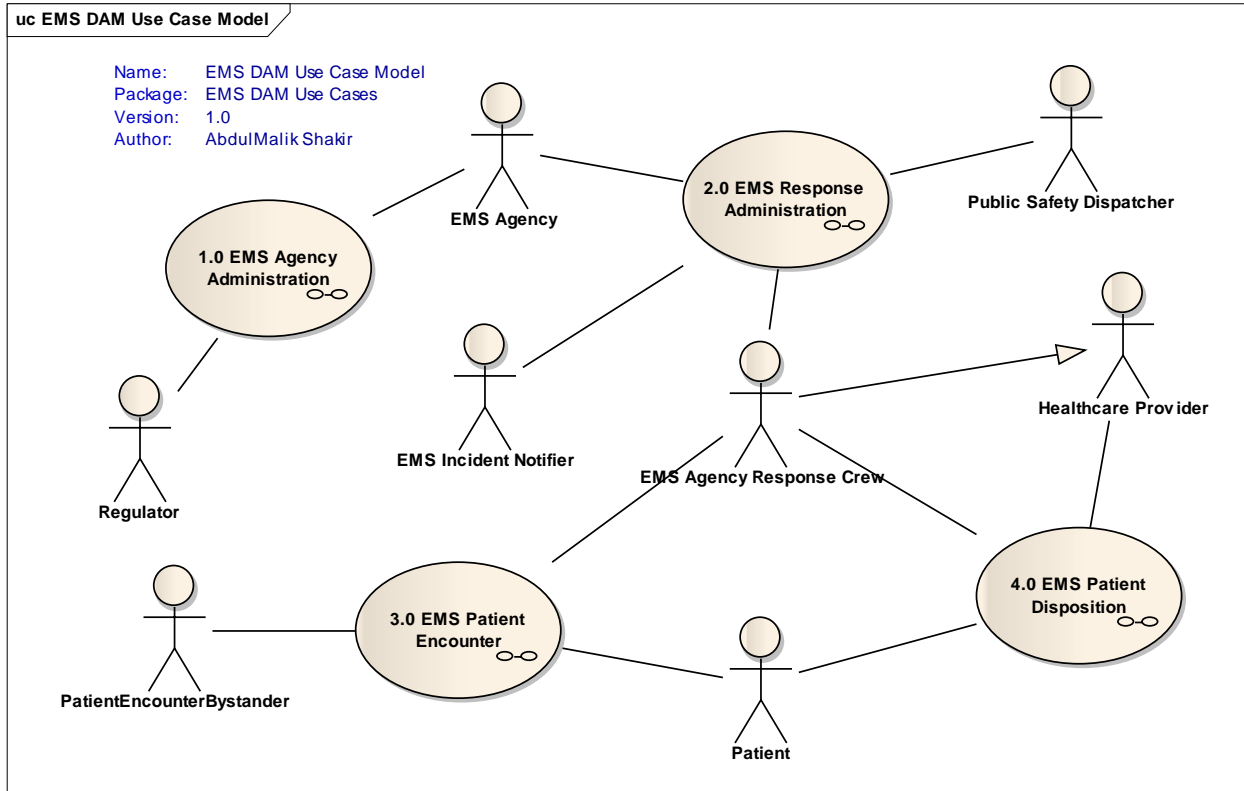


Figure: 3

1.0 EMS Agency Administration

Type: UseCase

Status: Proposed. Version 1.0. Phase 1.0.

Package: EMS DAM Use Cases **Keywords:**

Detail: Created on 7/13/2009. Last modified on 7/19/2009.

GUID: {1473B018-773B-41c7-89B9-88C2B1344943}

The set of activities required to establish an agency, certify the agency, and monitor agency performance.

Connections

| Connector | Source | Target | Notes |
|----------------------------|---------------------|--|-------|
| Association Unspecified | Public Regulator | Public 1.0 EMS Agency Administration | |

| Connector | Source | Target | Notes |
|---|--|--|-------|
| Realisation Source -> Destination | Public 1.0 EMS Agency Administration | Public 1.0 EMS Agency Administration | |
| Association Unspecified | Public EMS Agency | Public 1.0 EMS Agency Administration | |

Use Case diagram: 1.0 EMS Agency Administration

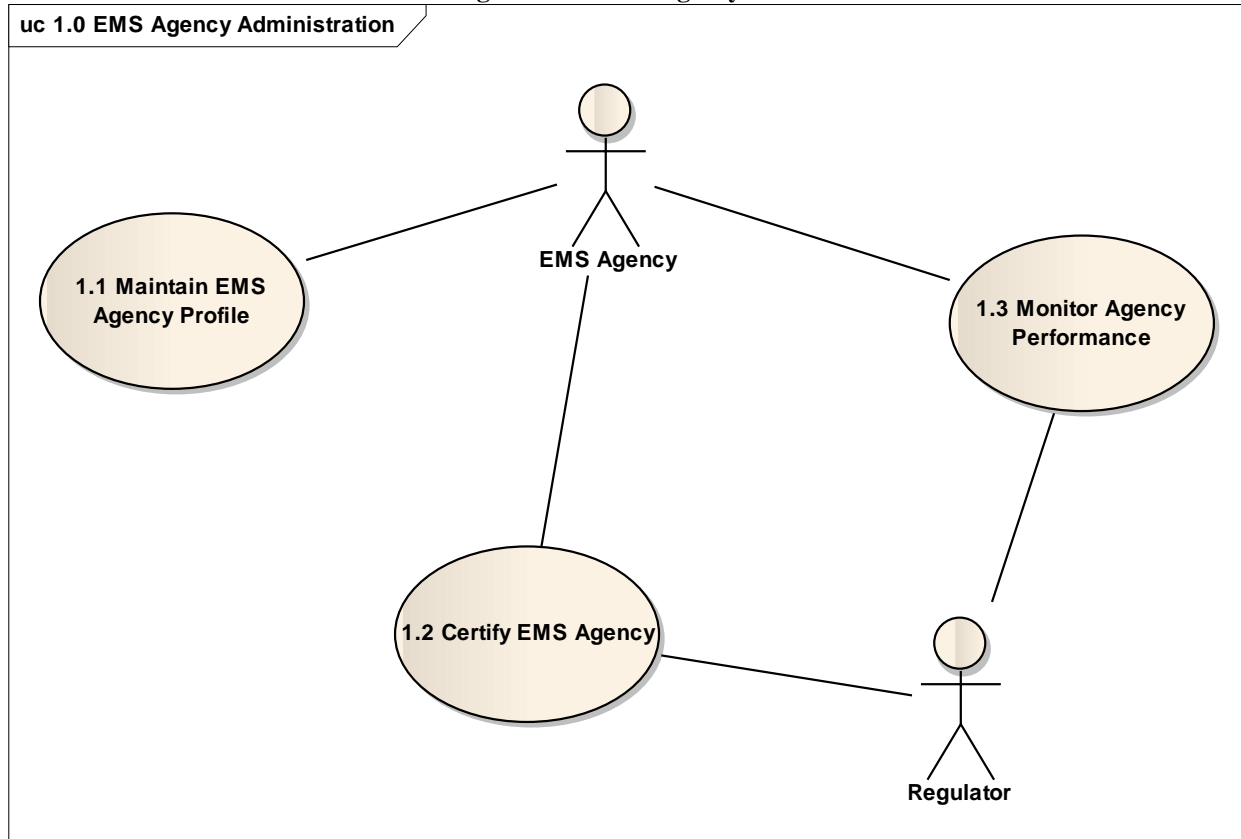


Figure: 4

1.1 Maintain EMS Agency Profile

Type: UseCase
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Cases *Keywords:*
Detail: Created on 7/19/2009. Last modified on 7/28/2009.
GUID: {4DF8B5F7-DF93-4f35-BAD8-4BB1F07E999E}

The set of activities necessary to maintain an agency profile including personnel, assets (vehicles, stations, devices, etc.), services provided, facilities and service areas served.

Connections

| Connector | Source | Target | Notes |
|-----------------------------------|--|----------------------|-------|
| <u>Association</u> Unspecified | Public 1.1 Maintain EMS Agency Profile | Public EMS Agency | |

1.2 Certify EMS Agency

Type: **UseCase**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Cases *Keywords:*
Detail: Created on 7/19/2009. Last modified on 7/19/2009.
GUID: {49C39EF0-4F39-42f4-94C1-F4A3D167C8D6}

The set of activities required to certify an agency including its facilities, personnel, vehicles and other devices.

Connections

| Connector | Source | Target | Notes |
|-----------------------------------|-------------------------------------|-------------------------------------|-------|
| <u>Association</u> Unspecified | Public 1.2 Certify EMS Agency | Public Regulator | |
| <u>Association</u> Unspecified | Public EMS Agency | Public 1.2 Certify EMS Agency | |

1.3 Monitor Agency Performance

Type: **UseCase**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Cases *Keywords:*
Detail: Created on 7/19/2009. Last modified on 7/19/2009.
GUID: {5B2C6F99-22FD-4353-A853-5BDD35F60F8D}

The set of activities required to gather relevant statistics and assess the performance of an agency.

Connections

| Connector | Source | Target | Notes |
|-----------------------------------|---|---|-------|
| <u>Association</u> Unspecified | Public EMS Agency | Public 1.3 Monitor Agency Performance | |
| <u>Association</u> Unspecified | Public 1.3 Monitor Agency Performance | Public Regulator | |

| Connector | Source | Target | Notes |
|-----------|--------|--------|-------|
| | | | |

2.0 EMS Response Administration

Type: UseCase
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Cases *Keywords:*
Detail: Created on 7/13/2009. Last modified on 7/19/2009.
GUID: {DF0F2CF0-A635-4150-AE01-008C87C9232E}

The set of activities required to initiate an EMS incident notification, determine an appropriate response, and to dispatch required EMS personnel and assets.

Connections

| Connector | Source | Target | Notes |
|---|---|--|-------|
| <u>Association</u> Unspecified | Public Public Safety Dispatcher | Public 2.0 EMS Response Administration | |
| <u>Association</u> Unspecified | Public EMS Incident Notifier | Public 2.0 EMS Response Administration | |
| <u>Realisation</u> Source -> Destination | Public 2.0 EMS Response Admininstration | Public 2.0 EMS Response Administration | |
| <u>Association</u> Unspecified | Public EMS Agency | Public 2.0 EMS Response Administration | |
| <u>Association</u> Unspecified | Public 2.0 EMS Response Administration | Public EMS Agency Response Crew | |

Use Case diagram: 2.0 EMS Response Administration

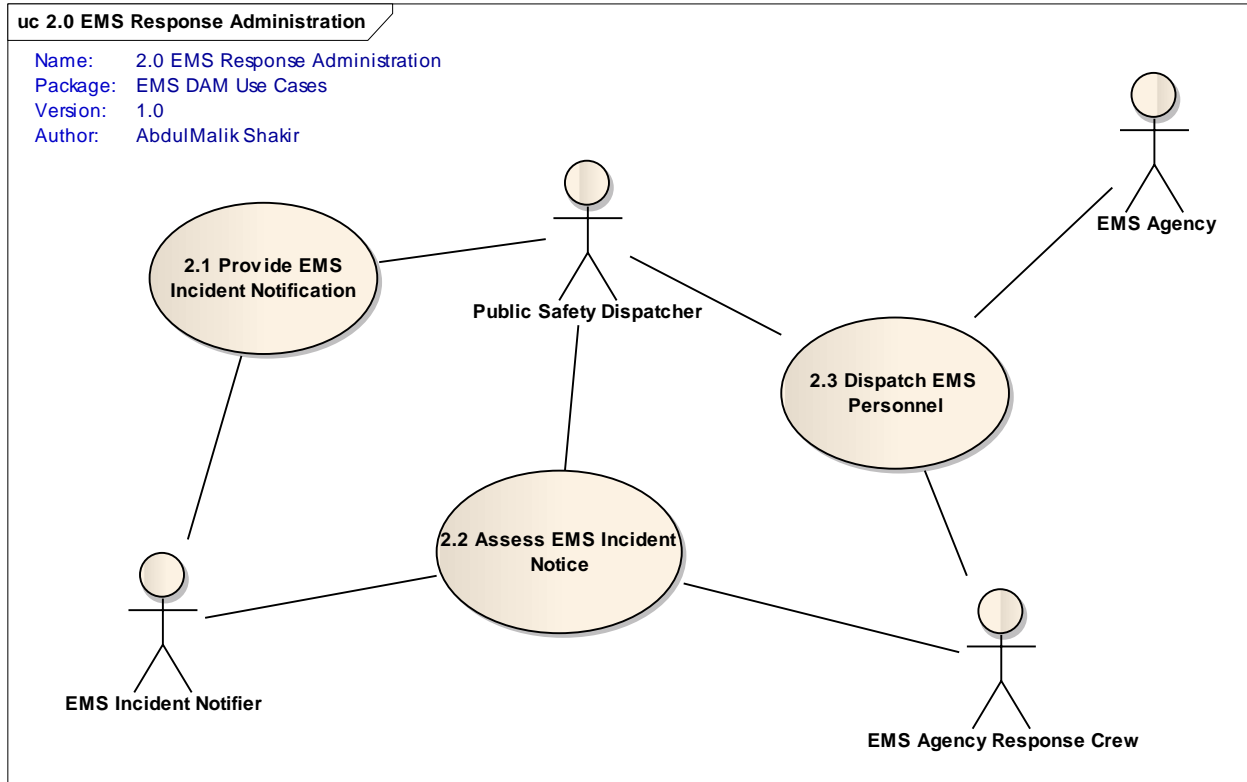


Figure: 5

2.1 Provide EMS Incident Notification

Type: UseCase
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Cases **Keywords:**
Detail: Created on 7/19/2009. Last modified on 7/19/2009.
GUID: {8DEEF0AF-591F-4860-AD6A-8CECF0ED6A00}

The set of activities required to notify emergency services of an EMS incident. Notification includes alerts issued by devices.

Connections

| Connector | Source | Target | Notes |
|-----------------------------------|--|---------------------------------------|-------|
| Association Unspecified | Public 2.1 Provide EMS Incident Notification | Public Public Safety Dispatcher | |
| Association Unspecified | Public 2.1 Provide EMS Incident Notification | Public EMS Incident Notifier | |

2.2 Assess EMS Incident Notice

Type: UseCase
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Cases *Keywords:*
Detail: Created on 7/19/2009. Last modified on 7/28/2009.
GUID: {0327AA0F-8E29-488a-8BA4-8C9F0F640818}

The set of activities required to evaluate the information provided regarding the reported EMS incident and to determine the appropriate response.

Connections

| Connector | Source | Target | Notes |
|-----------------------------------|---|---|-------|
| <u>Association</u> Unspecified | Public Public Safety Dispatcher | Public 2.2 Assess EMS Incident Notice | |
| <u>Association</u> Unspecified | Public EMS Incident Notifier | Public 2.2 Assess EMS Incident Notice | |
| <u>Association</u> Unspecified | Public 2.2 Assess EMS Incident Notice | Public EMS Agency Response Crew | |

2.3 Dispatch EMS Personnel

Type: UseCase
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Cases *Keywords:*
Detail: Created on 7/19/2009. Last modified on 7/19/2009.
GUID: {AC1472B3-3F4E-4700-87ED-1A3E97B155BF}

The set of activities required to dispatch required EMS personnel and assets to the scene of an EMS incident.

Connections

| Connector | Source | Target | Notes |
|-----------------------------------|---|---|-------|
| <u>Association</u> Unspecified | Public 2.3 Dispatch EMS Personnel | Public EMS Agency Response Crew | |
| <u>Association</u> Unspecified | Public EMS Agency | Public 2.3 Dispatch EMS Personnel | |
| <u>Association</u> Unspecified | Public Public Safety Dispatcher | Public 2.3 Dispatch EMS Personnel | |

3.0 EMS Patient Encounter

Type: UseCase
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Cases *Keywords:*
Detail: Created on 7/13/2009. Last modified on 7/19/2009.
GUID: {60102F04-3D9B-4504-A1F6-1998D5E8BF72}

The set of activities required to assess a patient's condition, determine appropriate interventions, and to render treatment.

Connections

| Connector | Source | Target | Notes |
|---|---|--|-------|
| <u>Association</u> Unspecified | Public EMS Agency Response Crew | Public 3.0 EMS Patient Encounter | |
| <u>Association</u> Unspecified | Public PatientEncounterBystan der | Public 3.0 EMS Patient Encounter | |
| <u>Realisation</u> Source -> Destination | Public 3.0 EMS Patient Encounter | Public 3.0 EMS Patient Encounter | |
| <u>Association</u> Unspecified | Public Patient | Public 3.0 EMS Patient Encounter | |

Use Case diagram: 3.0 EMS Patient Encounter

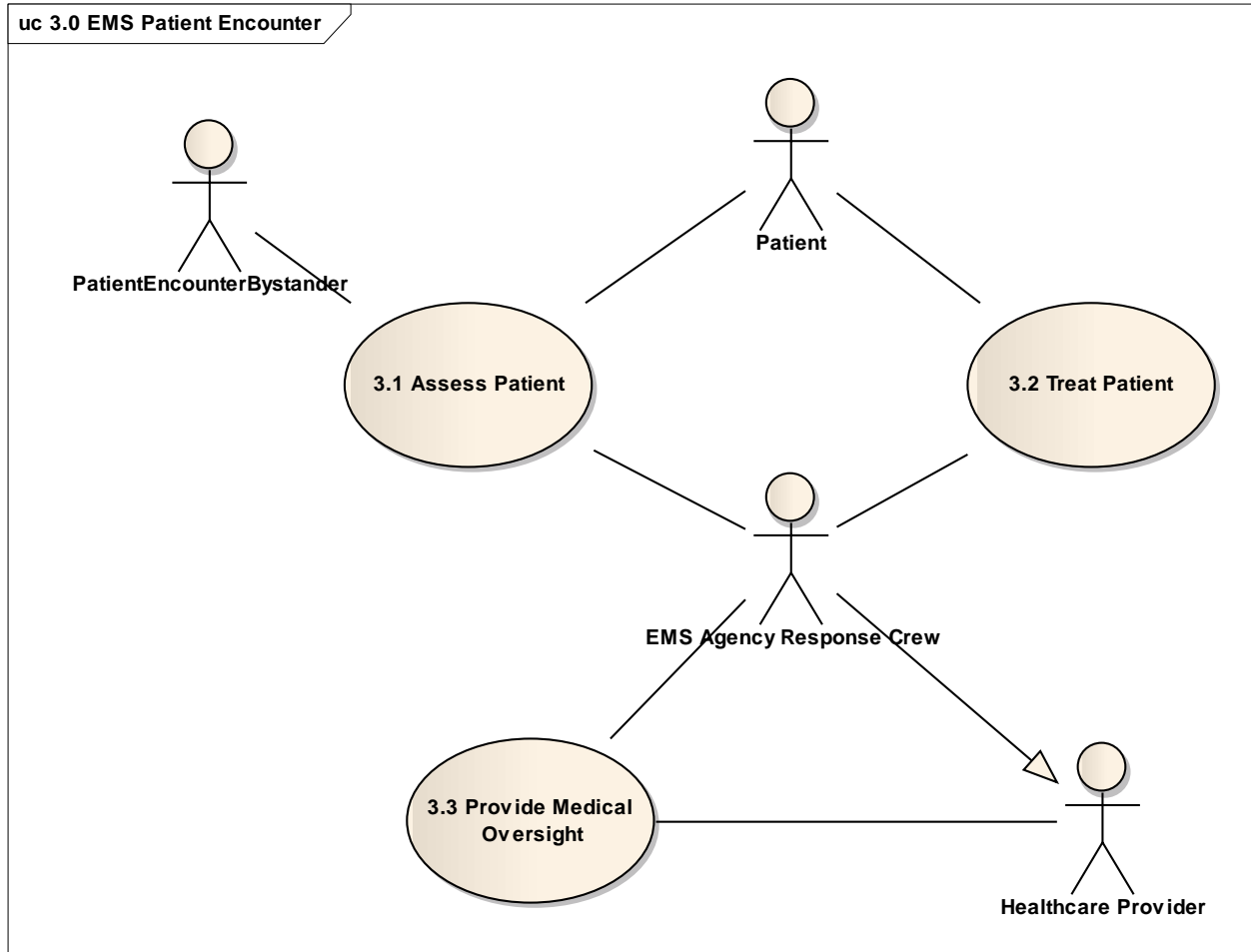


Figure: 6

3.1 Assess Patient

Type: UseCase
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Cases *Keywords:*
Detail: Created on 7/19/2009. Last modified on 7/19/2009.
GUID: {C874176B-4765-43b6-8F9D-D3FDCAE8000F}

The set of activities required to evaluate the health condition of the EMS patient and to determine an appropriate course of treatment or other intervention.

Connections

| Connector | Source | Target | Notes |
|-----------------------------------|-------------------------------------|------------------------------|-------|
| <u>Association</u> Unspecified | Public PatientEncounterBystander | Public 3.1 Assess Patient | |

| Connector | Source | Target | Notes |
|-----------------------------------|---------------------------------------|------------------------------|-------|
| <u>Association</u> Unspecified | Public EMS Agency Response Crew | Public 3.1 Assess Patient | |
| <u>Association</u> Unspecified | Public 3.1 Assess Patient | Public Patient | |

3.2 Treat Patient

Type: **UseCase**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Cases *Keywords:*
Detail: Created on 7/19/2009. Last modified on 7/19/2009.
GUID: {A2654313-EF01-47c6-847D-5355AADFADAE}

The set of EMS activities required to address the patient's health conditions.

Connections

| Connector | Source | Target | Notes |
|-----------------------------------|---------------------------------------|-----------------------------|-------|
| <u>Association</u> Unspecified | Public EMS Agency Response Crew | Public 3.2 Treat Patient | |
| <u>Association</u> Unspecified | Public Patient | Public 3.2 Treat Patient | |

3.3 Provide Medical Oversight

Type: **UseCase**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Cases *Keywords:*
Detail: Created on 7/28/2009. Last modified on 7/28/2009.
GUID: {E5601A57-568A-45f0-9DA0-2FC88EE41770}

Connections

| Connector | Source | Target | Notes |
|-----------------------------------|--|--|-------|
| <u>Association</u> Unspecified | Public 3.3 Provide Medical Oversight | Public EMS Agency Response Crew | |
| <u>Association</u> Unspecified | Public Healthcare Provider | Public 3.3 Provide Medical Oversight | |

4.0 EMS Patient Disposition

Type: UseCase
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Cases *Keywords:*
Detail: Created on 7/13/2009. Last modified on 7/19/2009.
GUID: {CAF1FBC0-925E-4ee5-9E64-CDA83D5A978B}

The activities required following interventions provided in response to an EMS incident notification. Includes transporting of patient from the scene and transitioning of medical control.

Connections

| Connector | Source | Target | Notes |
|--|--|--|--------------|
| <u>Association</u> Unspecified | Public Patient | Public 4.0 EMS Patient Disposition | |
| <u>Realisation</u> Source -> Destination | Public 4.0 EMS Patient Disposition | Public 4.0 EMS Patient Disposition | |
| <u>Association</u> Unspecified | Public EMS Agency Response Crew | Public 4.0 EMS Patient Disposition | |
| <u>Association</u> Unspecified | Public 4.0 EMS Patient Disposition | Public Healthcare Provider | |

Use Case diagram: 4.0 EMS Patient Disposition

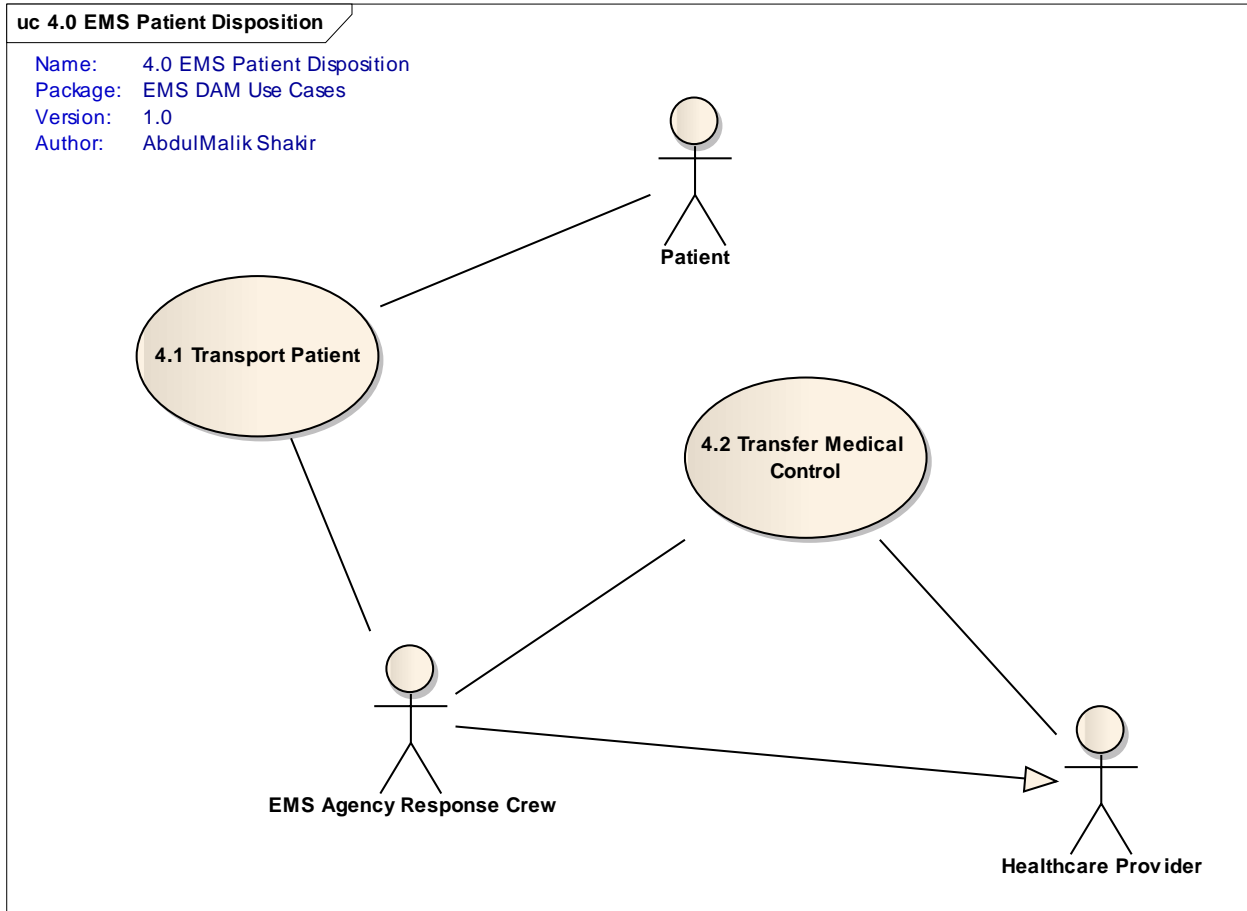


Figure: 7

4.1 Transport Patient

Type: UseCase
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Cases *Keywords:*
Detail: Created on 7/19/2009. Last modified on 7/19/2009.
GUID: {95F119FB-9BC4-499b-BE6B-C6C8B39A628E}

The set of activities required to transport or arrange for transport of the patient from the scene of the EMS incident.

Connections

| Connector | Source | Target | Notes |
|-----------------------------------|---------------------------------|------------------------------------|-------|
| <u>Association</u> Unspecified | Public 4.1 Transport Patient | Public Patient | |
| <u>Association</u> Unspecified | Public 4.1 Transport Patient | Public EMS Agency Response Crew | |

4.2 Transfer Medical Control

Type: **UseCase**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Cases *Keywords:*
Detail: Created on 7/19/2009. Last modified on 7/19/2009.
GUID: {FE5CE378-9C34-4fd9-B54A-C8C2CE72E123}

The set of activities required to facilitate the relinquish of control from the responding EMS crew to a health care provider.

Connections

| Connector | Source | Target | Notes |
|-----------------------------------|---------------------------------------|---|-------|
| Association Unspecified | Public EMS Agency Response Crew | Public 4.2 Transfer Medical Control | |
| Association Unspecified | Public Healthcare Provider | Public 4.2 Transfer Medical Control | |

EMS DAM Activities

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Behavioral Model
Detail: Created on 7/28/2009. Last modified on 7/28/2009
GUID: {70C59AAC-6C42-4155-A84E-E348C186C846}

EMS DAM Activities - (Package diagram)

Created By: AbdulMalik Shakir on 7/28/2009
Last Modified: 8/24/2009
Version: 1.0. *Locked:* False
GUID: {FE956537-71EC-4d0f-928D-6C355B5E52FD}

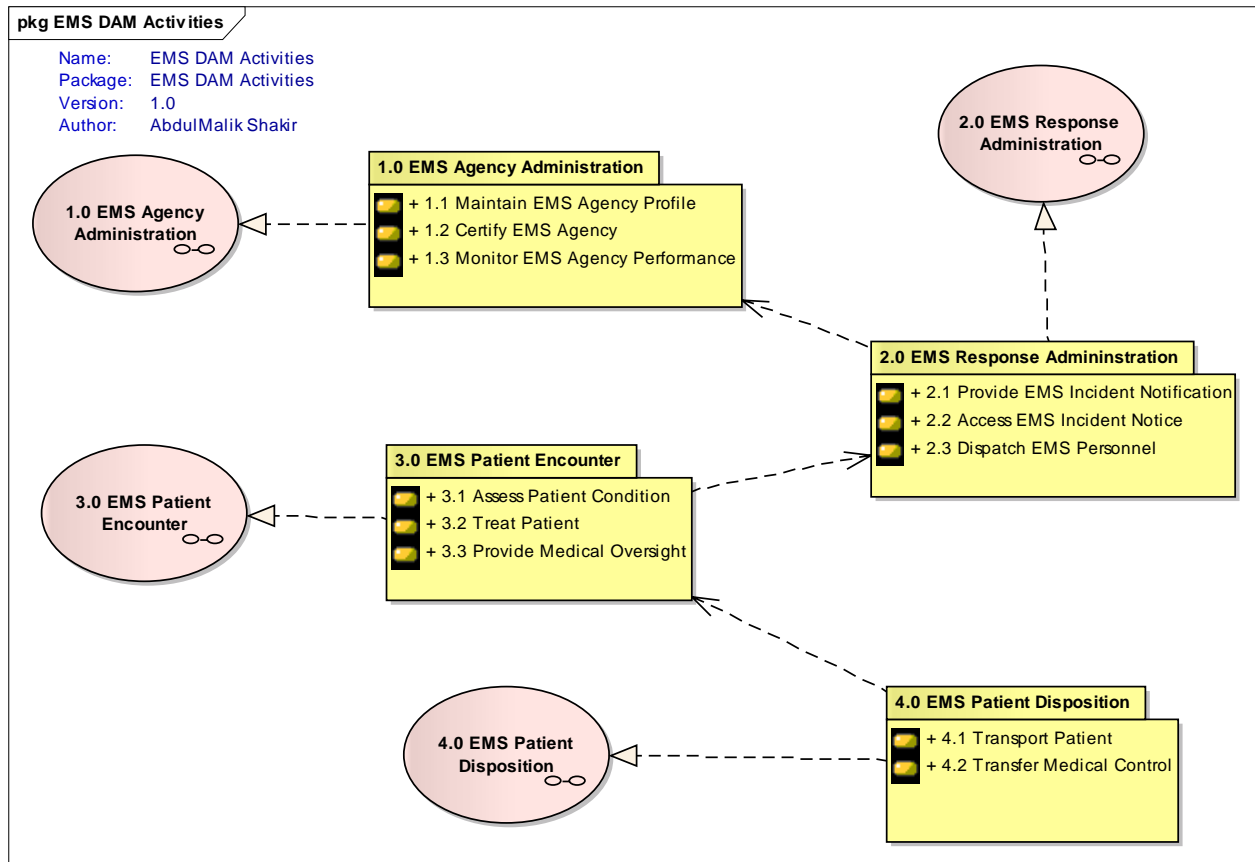


Figure: 8

1.0 EMS Agency Administration

Type: **Package**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: EMS DAM Activities
 Detail: Created on 7/19/2009. Last modified on 7/28/2009
 GUID: {D8727DDF-1BC0-4b06-B70B-286D07999EE9}

1.0 EMS Agency Administration - (Activity diagram)

Created By: AbdulMalik Shakir on 7/19/2009
 Last Modified: 7/28/2009
 Version: 1.0. Locked: False
 GUID: {51529057-E4E4-44f5-89E4-58B4363D93F6}

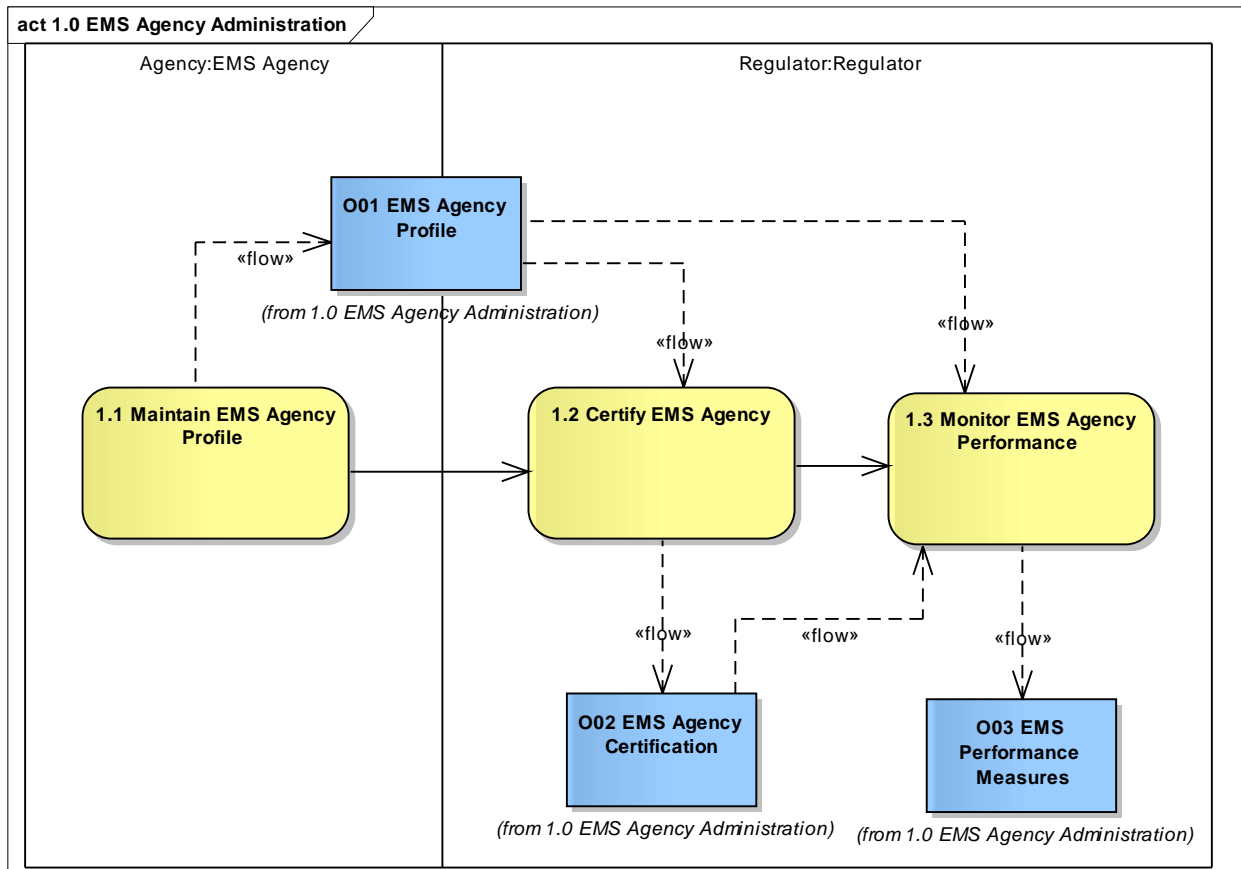


Figure: 9

1.1 Maintain EMS Agency Profile

Type: **Activity**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: 1.0 EMS Agency Administration *Keywords:*
 Detail: Created on 7/28/2009. Last modified on 7/28/2009.
 GUID: {EB3D6E53-DDB4-466c-B5F3-4C2168373C76}

Custom Properties

- isReadOnly = False
- isSingleExecution = False
- postcondition =
- precondition =
- parameterName =

Connections

| Connector | Source | Target | Notes |
|--|--|-------------------------------------|-------|
| ControlFlow Source -> Destination | Public 1.1 Maintain EMS Agency Profile | Public 1.2 Certify EMS Agency | |
| Information Flow Source -> Destination | Public 1.1 Maintain EMS Agency Profile | Public 001 EMS Agency Profile | |

1.2 Certify EMS Agency

Type: **Activity**
Status: Proposed. Version 1.0. Phase 1.0.
Package: 1.0 EMS Agency Administration **Keywords:**
Detail: Created on 7/28/2009. Last modified on 7/28/2009.
GUID: {D70C308A-260D-4052-877B-3AFF98E16FFC}

Custom Properties

- isReadOnly = False
- isSingleExecution = False
- postcondition =
- precondition =
- parameterName =

Connections

| Connector | Source | Target | Notes |
|--|--|---|-------|
| ControlFlow Source -> Destination | Public 1.1 Maintain EMS Agency Profile | Public 1.2 Certify EMS Agency | |
| Information Flow Source -> Destination | Public 1.2 Certify EMS Agency | Public 002 EMS Agency Certification | |
| ControlFlow Source -> Destination | Public 1.2 Certify EMS Agency | Public 1.3 Monitor EMS Agency Performance | |
| Information Flow Source -> Destination | Public 001 EMS Agency Profile | Public 1.2 Certify EMS Agency | |

1.3 Monitor EMS Agency Performance

Type: Activity
Status: Proposed. Version 1.0. Phase 1.0.
Package: 1.0 EMS Agency Administration *Keywords:*
Detail: Created on 7/28/2009. Last modified on 7/28/2009.
GUID: {71FBF7FA-DC0C-408f-841D-AF8BED006A20}

Custom Properties

- isReadOnly = False
- isSingleExecution = False
- postcondition =
- precondition =
- parameterName =

Connections

| Connector | Source | Target | Notes |
|--|---|---|-------|
| <u>Information Flow</u> Source -> Destination | Public O02 EMS Agency Certification | Public 1.3 Monitor EMS Agency Performance | |
| <u>Information Flow</u> Source -> Destination | Public O01 EMS Agency Profile | Public 1.3 Monitor EMS Agency Performance | |
| <u>Information Flow</u> Source -> Destination | Public 1.3 Monitor EMS Agency Performance | Public O03 EMS Performance Measures | |
| <u>ControlFlow</u> Source -> Destination | Public 1.2 Certify EMS Agency | Public 1.3 Monitor EMS Agency Performance | |

2.0 EMS Response Administration

Type: Package
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Activities
Detail: Created on 7/28/2009. Last modified on 7/28/2009
GUID: {2BFC0DD7-27C3-475e-90CF-E0648099AE37}

2.0 EMS Response Administration - (Activity diagram)

Created By: AbdulMalik Shakir on 7/28/2009
Last Modified: 8/24/2009

Version: 1.0. Locked: False
 GUID: {B05F1D36-B72F-4f22-9D75-0AE93FE8C7DD}

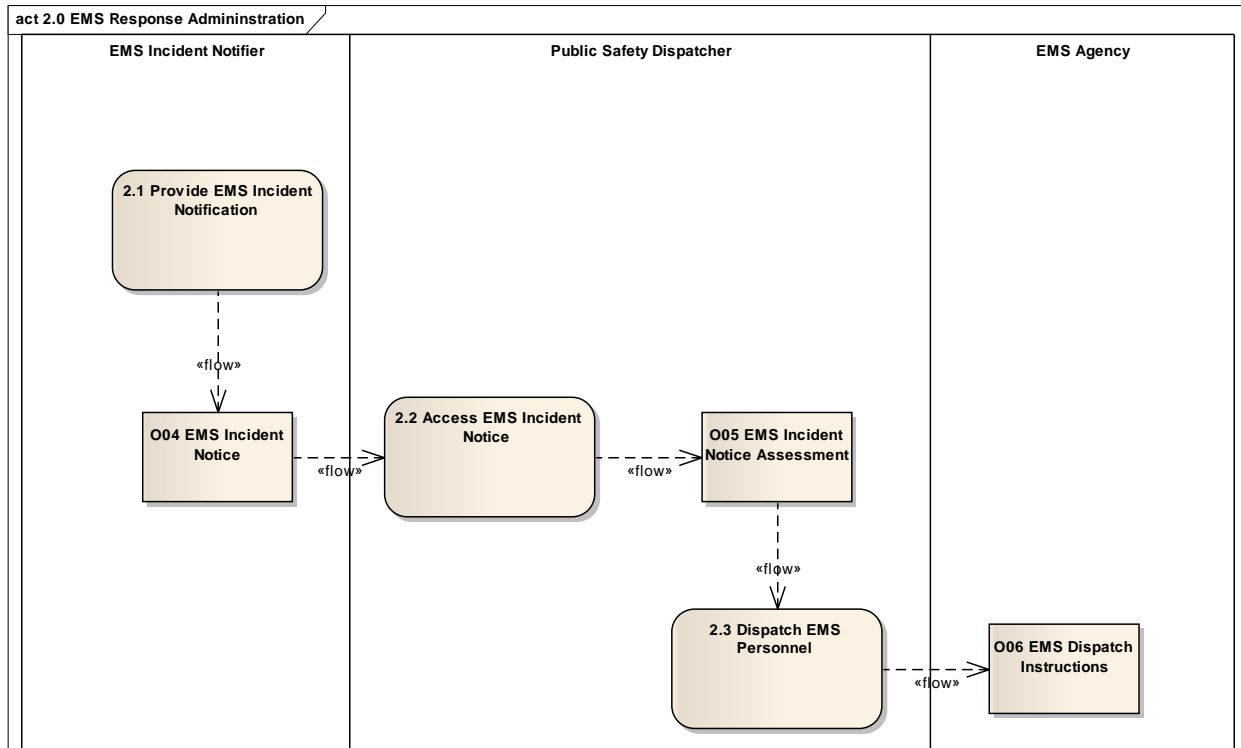


Figure: 10

2.1 Provide EMS Incident Notification

Type: **Activity**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: 2.0 EMS Response Administration *Keywords:*
 Detail: Created on 8/24/2009. Last modified on 8/24/2009.
 GUID: {B10BA5BD-648F-4c39-A82D-413EF41C262E}

Custom Properties

- isReadOnly = False
- isSingleExecution = False
- postcondition =
- precondition =
- parameterName =

Connections

| Connector | Source | Target | Notes |
|-----------|--------|--------|-------|
|-----------|--------|--------|-------|

| Connector | Source | Target | Notes |
|--|--|--------------------------------------|-------|
| Information Flow Source -> Destination | Public 2.1 Provide EMS Incident Notification | Public O04 EMS Incident Notice | |

2.2 Access EMS Incident Notice

Type: **Activity**
Status: Proposed. Version 1.0. Phase 1.0.
Package: 2.0 EMS Response Administration *Keywords:*
Detail: Created on 8/24/2009. Last modified on 8/24/2009.
GUID: {70D6F01D-D689-403c-9A3D-F50819BE9302}

Custom Properties

- isReadOnly = False
- isSingleExecution = False
- postcondition =
- precondition =
- parameterName =

Connections

| Connector | Source | Target | Notes |
|--|---|---|-------|
| Information Flow Source -> Destination | Public 2.2 Access EMS Incident Notice | Public O05 EMS Incident Notice Assessment | |
| Information Flow Source -> Destination | Public O04 EMS Incident Notice | Public 2.2 Access EMS Incident Notice | |

2.3 Dispatch EMS Personnel

Type: **Activity**
Status: Proposed. Version 1.0. Phase 1.0.
Package: 2.0 EMS Response Administration *Keywords:*
Detail: Created on 8/24/2009. Last modified on 8/24/2009.
GUID: {A03366D8-6EA8-42cc-A552-449C609D6F12}

Custom Properties

Custom Properties

- isReadOnly = False
- isSingleExecution = False
- postcondition =
- precondition =
- parameterName =

Connections

| Connector | Source | Target | Notes |
|---|---|--|-------|
| <u>Information Flow</u> Source -> Destination | Public O05 EMS Incident Notice Assessment | Public 2.3 Dispatch EMS Personnel | |
| <u>Information Flow</u> Source -> Destination | Public 2.3 Dispatch EMS Personnel | Public O06 EMS Dispatch Instructions | |

3.0 EMS Patient Encounter

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Activities
Detail: Created on 7/28/2009. Last modified on 7/28/2009
GUID: {EC0535E1-3FD2-4d41-811E-B15A78DCE432}

3.0 EMS Patient Encounter - (Activity diagram)

Created By: AbdulMalik Shakir on 7/28/2009
Last Modified: 8/24/2009
Version: 1.0. **Locked:** False
GUID: {B635B101-C089-4e91-8ADA-89F311EEC552}

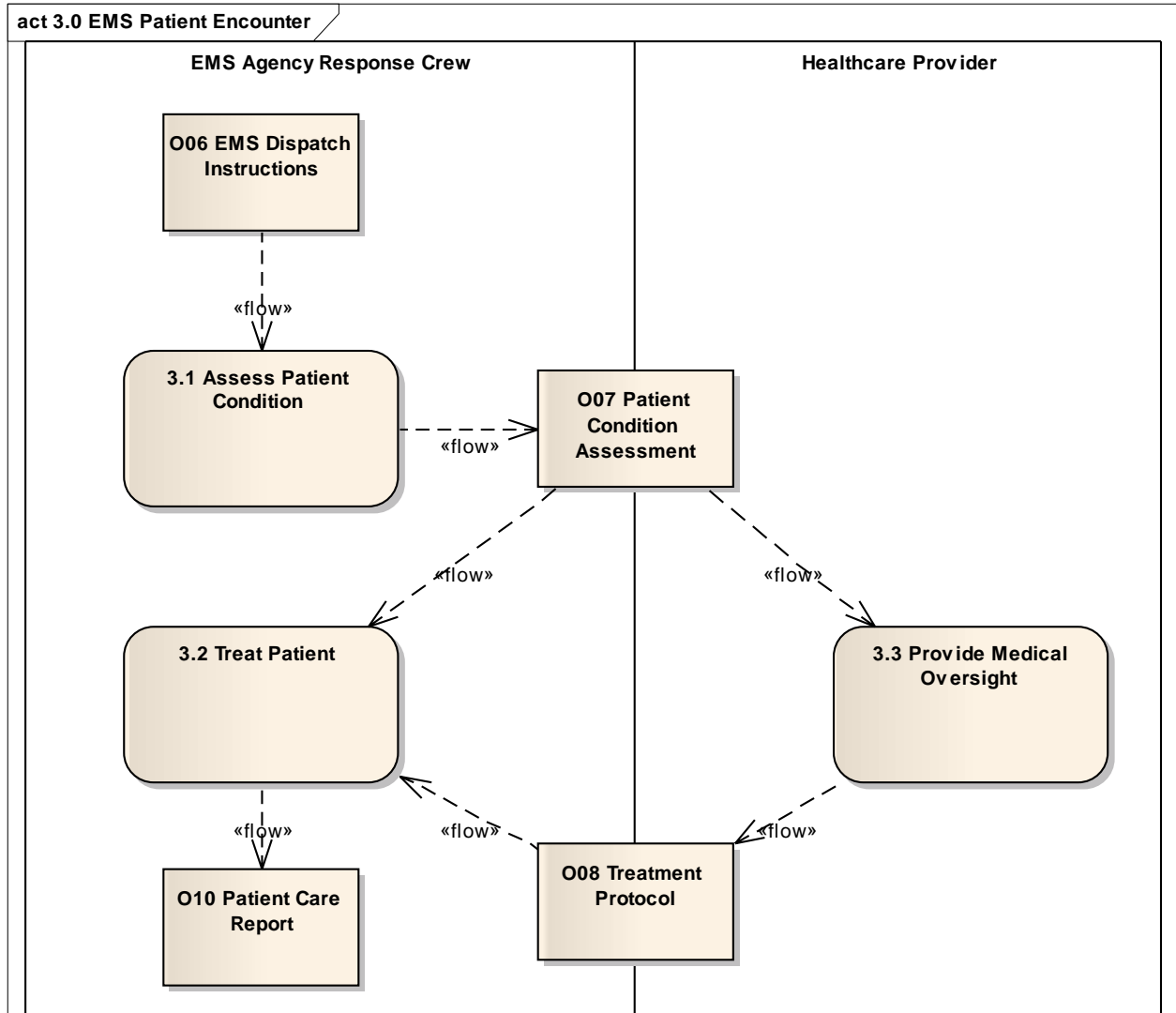


Figure: 11

3.1 Assess Patient Condition

Type: Activity
Status: Proposed. Version 1.0. Phase 1.0.
Package: 3.0 EMS Patient Encounter *Keywords:*
Detail: Created on 8/24/2009. Last modified on 8/24/2009.
GUID: {1789DFA1-4694-4009-8F91-5D46221163A8}

Custom Properties

- isReadOnly = False
- isSingleExecution = False
- postcondition =

Custom Properties

- precondition =
- parameterName =

Connections

| Connector | Source | Target | Notes |
|--|--|---|-------|
| Information Flow Source -> Destination | Public O06 EMS Dispatch Instructions | Public 3.1 Assess Patient Condition | |
| Information Flow Source -> Destination | Public 3.1 Assess Patient Condition | Public O07 Patient Condition Assessment | |

3.2 Treat Patient

Type: **Activity**
Status: Proposed. Version 1.0. Phase 1.0.
Package: 3.0 EMS Patient Encounter *Keywords:*
Detail: Created on 8/24/2009. Last modified on 8/24/2009.
GUID: {5015B146-A92F-4fcd-9203-02D366F21E15}

Custom Properties

- isReadOnly = False
- isSingleExecution = False
- postcondition =
- precondition =
- parameterName =

Connections

| Connector | Source | Target | Notes |
|--|---|--------------------------------------|-------|
| Information Flow Source -> Destination | Public O08 Treatment Protocol | Public 3.2 Treat Patient | |
| Information Flow Source -> Destination | Public O07 Patient Condition Assessment | Public 3.2 Treat Patient | |
| Information Flow Source -> Destination | Public 3.2 Treat Patient | Public O10 Patient Care Report | |

3.3 Provide Medical Oversight

Type: **Activity**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: 3.0 EMS Patient Encounter *Keywords:*
 Detail: Created on 8/24/2009. Last modified on 8/24/2009.
 GUID: {C73AACA0-0475-4af5-B46A-1E08B9970749}

Custom Properties

- isReadOnly = False
- isSingleExecution = False
- postcondition =
- precondition =
- parameterName =

Connections

| Connector | Source | Target | Notes |
|--|---|--|-------|
| Information Flow Source -> Destination | Public 007 Patient Condition Assessment | Public 3.3 Provide Medical Oversight | |
| Information Flow Source -> Destination | Public 3.3 Provide Medical Oversight | Public 008 Treatment Protocol | |

4.0 EMS Patient Disposition

Type: **Package**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: EMS DAM Activities
 Detail: Created on 7/28/2009. Last modified on 7/28/2009
 GUID: {B5F14FAD-7DF6-433c-A0A0-AF289759965C}

4.0 EMS Patient Disposition - (Activity diagram)

Created By: AbdulMalik Shakir on 7/28/2009
 Last Modified: 8/24/2009
 Version: 1.0. *Locked:* False
 GUID: {396A0645-3613-49dc-98C4-64E157740FD3}

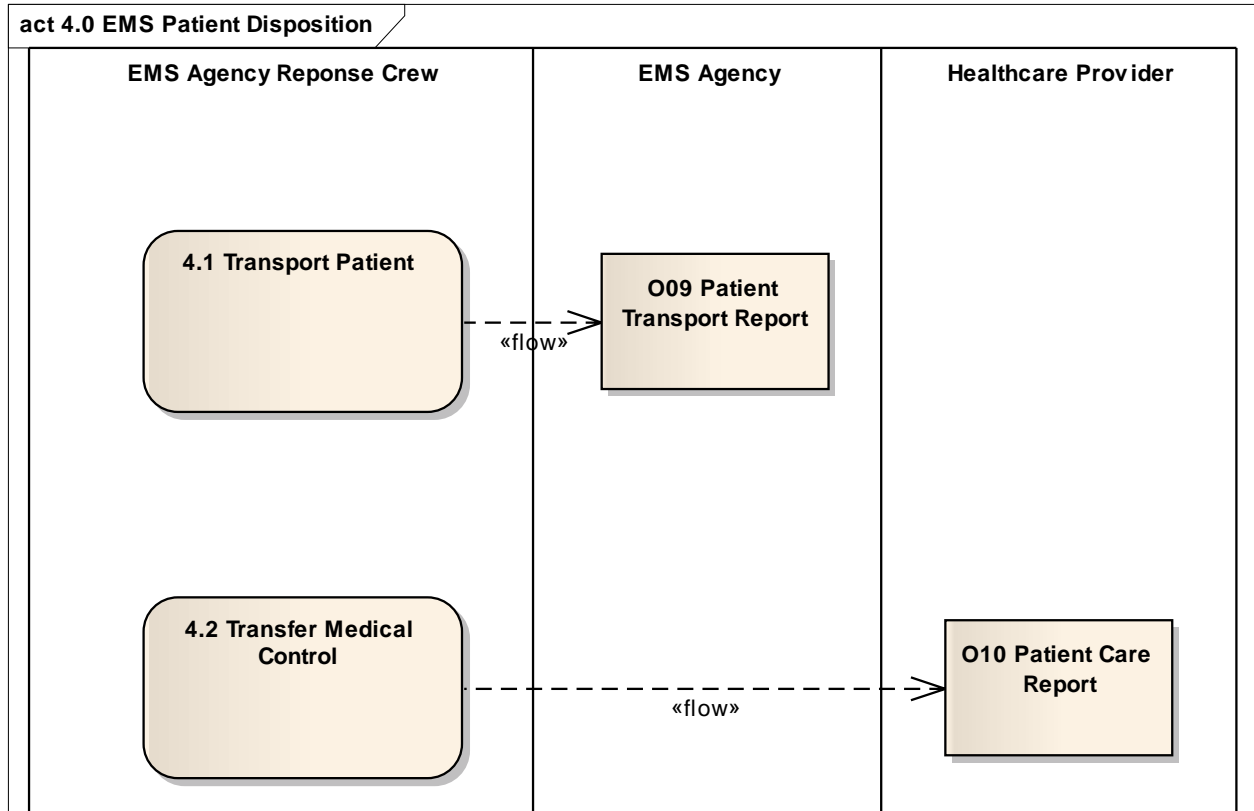


Figure: 12

4.1 Transport Patient

Type: Activity
Status: Proposed. Version 1.0. Phase 1.0.
Package: 4.0 EMS Patient Disposition *Keywords:*
Detail: Created on 8/24/2009. Last modified on 8/24/2009.
GUID: {DAF4C622-F8DA-4eb1-8CCF-2FC5C2A06F2C}

Custom Properties

- isReadOnly = False
- isSingleExecution = False
- postcondition =
- precondition =
- parameterName =

Connections

| Connector | Source | Target | Notes |
|-------------------------|--------|--------|-------|
| Information Flow | Public | Public | |

| Connector | Source | Target | Notes |
|-----------------------|-----------------------|------------------------------|-------|
| Source -> Destination | 4.1 Transport Patient | O09 Patient Transport Report | |

4.2 Transfer Medical Control

Type: **Activity**
Status: Proposed. Version 1.0. Phase 1.0.
Package: 4.0 EMS Patient Disposition *Keywords:*
Detail: Created on 8/24/2009. Last modified on 8/24/2009.
GUID: {82459BF2-C60D-4a04-8164-FE9C340EEF80}

Custom Properties

- isReadOnly = False
- isSingleExecution = False
- postcondition =
- precondition =
- parameterName =

Connections

| Connector | Source | Target | Notes |
|--|--|-----------------------------------|-------|
| Information Flow Source -> Destination | Public 4.2 Transfer Medical Control | Public O10 Patient Care Report | |

EMS DAM Use Case Actors

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Behavioral Model
Detail: Created on 7/13/2009. Last modified on 7/13/2009
GUID: {8599C1CF-D74C-4f7b-992B-A010CA3D18B5}

EMS DAM Use Case Actors - (Use Case diagram)

Created By: AbdulMalik Shakir on 7/13/2009
Last Modified: 7/19/2009
Version: 1.0. *Locked:* False
GUID: {50212A8C-E392-4d74-890B-F3BE898A50B5}

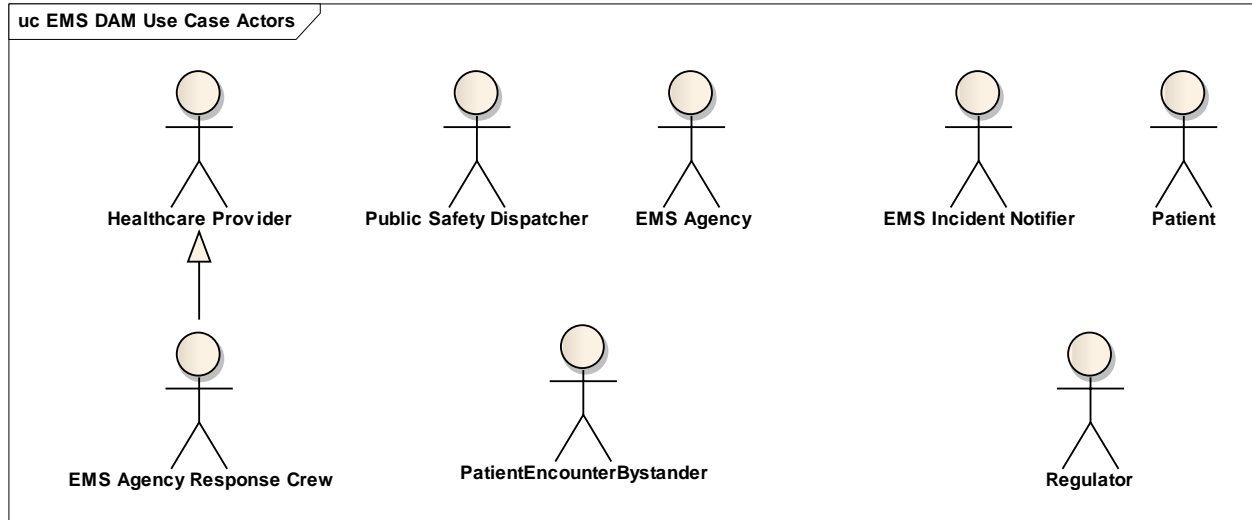


Figure: 13

EMS Agency

Type: Actor
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Case Actors **Keywords:**
Detail: Created on 7/13/2009. Last modified on 7/19/2009.
GUID: {741D2997-2977-45dd-8F4A-0C1A1D2BE5F7}

A permanent or semi-permanent organization responsible for the provision of emergency medical services within a given jurisdiction.

Connections

| Connector | Source | Target | Notes |
|-----------------------------------|----------------------|--|-------|
| <u>Association</u> Unspecified | Public EMS Agency | Public 2.3 Dispatch EMS Personnel | |
| <u>Association</u> Unspecified | Public EMS Agency | Public 2.0 EMS Response Administration | |
| <u>Association</u> Unspecified | Public EMS Agency | Public 1.3 Monitor Agency Performance | |
| <u>Association</u> Unspecified | Public EMS Agency | Public 1.2 Certify EMS Agency | |
| <u>Association</u> Unspecified | Public EMS Agency | Public 1.0 EMS Agency Administration | |

| Connector | Source | Target | Notes |
|-----------------------------------|--|----------------------|-------|
| Association Unspecified | Public 1.1 Maintain EMS Agency Profile | Public EMS Agency | |

EMS Agency Response Crew

Type: **Actor**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Case Actors *Keywords:*
Detail: Created on 7/13/2009. Last modified on 7/19/2009.
GUID: {A52A225F-9DC8-424f-A549-DD5A1560E11B}

The set of EMS agency personnel and associated agency assets dispatched in response to an EMS incident notification.

Connections

| Connector | Source | Target | Notes |
|-----------------------------------|--|--|-------|
| Association Unspecified | Public 2.3 Dispatch EMS Personnel | Public EMS Agency Response Crew | |
| Association Unspecified | Public 3.3 Provide Medical Oversight | Public EMS Agency Response Crew | |
| Association Unspecified | Public EMS Agency Response Crew | Public 3.2 Treat Patient | |
| Association Unspecified | Public EMS Agency Response Crew | Public 4.0 EMS Patient Disposition | |
| Association Unspecified | Public EMS Agency Response Crew | Public 3.1 Assess Patient | |
| Association Unspecified | Public 2.0 EMS Response Administration | Public EMS Agency Response Crew | |
| Association Unspecified | Public 4.1 Transport Patient | Public EMS Agency Response Crew | |
| Association Unspecified | Public EMS Agency Response Crew | Public 3.0 EMS Patient Encounter | |
| Generalization | Public | Public | |

| Connector | Source | Target | Notes |
|-----------------------------------|--|--|-------|
| Source -> Destination | EMS Agency Response Crew | Healthcare Provider | |
| Association Unspecified | Public EMS Agency Response Crew | Public 4.2 Transfer Medical Control | |
| Association Unspecified | Public 2.2 Assess EMS Incident Notice | Public EMS Agency Response Crew | |

EMS Incident Notifier

Type: Actor
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Case Actors *Keywords:*
Detail: Created on 7/13/2009. Last modified on 7/19/2009.
GUID: {BBDD7E6D-D22E-412d-B2E7-F9D6A0686648}

An individual, group, or device that notifies a public safety dispatcher of an incident requiring a EMS response.

Connections

| Connector | Source | Target | Notes |
|-----------------------------------|---|---|-------|
| Association Unspecified | Public EMS Incident Notifier | Public 2.0 EMS Response Administration | |
| Association Unspecified | Public 2.1 Provide EMS Incident Notification | Public EMS Incident Notifier | |
| Association Unspecified | Public EMS Incident Notifier | Public 2.2 Assess EMS Incident Notice | |

Healthcare Provider

Type: Actor
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Case Actors *Keywords:*
Detail: Created on 7/13/2009. Last modified on 7/19/2009.
GUID: {A3D8F925-8466-461e-891A-E3A94600B066}

An organization or person who delivers proper health care in a systematic way professionally to any individual in need of health care services.

Connections

| Connector | Source | Target | Notes |
|---|--|--|--------------|
| <u>Association</u> Unspecified | Public 4.0 EMS Patient Disposition | Public Healthcare Provider | |
| <u>Association</u> Unspecified | Public Healthcare Provider | Public 3.3 Provide Medical Oversight | |
| <u>Generalization</u> Source -> Destination | Public EMS Agency Response Crew | Public Healthcare Provider | |
| <u>Association</u> Unspecified | Public Healthcare Provider | Public 4.2 Transfer Medical Control | |

Patient

Type: **Actor**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Case Actors **Keywords:**
Detail: Created on 7/13/2009. Last modified on 7/19/2009.
GUID: {CEF3DC6B-5FD7-4255-9AA5-95B0D15316FE}

A person who receives or is in need of medical attention, care, or treatment. The person is most often ill or injured and in need of treatment by a physician or other medical professional.

Connections

| Connector | Source | Target | Notes |
|--|---------------------------------|--|--------------|
| <u>Association</u> Unspecified | Public Patient | Public 4.0 EMS Patient Disposition | |
| <u>Association</u> Unspecified | Public 3.1 Assess Patient | Public Patient | |
| <u>Association</u> Unspecified | Public Patient | Public 3.2 Treat Patient | |
| <u>Association</u> Unspecified | Public 4.1 Transport Patient | Public Patient | |
| <u>Association</u> Unspecified | Public Patient | Public 3.0 EMS Patient Encounter | |

PatientEncounterBystander

Type: Actor
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Case Actors *Keywords:*
Detail: Created on 7/13/2009. Last modified on 7/19/2009.
GUID: {6AFE34FF-897C-40b7-8010-DB9036C34346}

Persons other than the patient that serve as a source or recipient of information provided to or from the EMS Agency Response Crew during a patient encounter.

Connections

| Connector | Source | Target | Notes |
|-----------------------------------|-------------------------------------|-------------------------------------|-------|
| <u>Association</u> Unspecified | Public PatientEncounterBystander | Public 3.1 Assess Patient | |
| <u>Association</u> Unspecified | Public PatientEncounterBystander | Public 3.0 EMS Patient Encounter | |

Public Safety Dispatcher

Type: Actor
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Case Actors *Keywords:*
Detail: Created on 7/13/2009. Last modified on 7/28/2009.
GUID: {44B4C739-AB1B-4ef8-8A87-33F0F34E7164}

Communications personnel responsible for receiving and transmitting pure and reliable messages, tracking vehicles and equipment, and recording other important information.

Public safety dispatchers (also known as emergency dispatchers or 9-1-1 dispatchers) receive calls from individuals who need assistance from Firefighters, Police Officers, and Emergency Medical Services.

Once information is obtained from the caller, these dispatchers activate the services necessary to respond to the nature of the call for help.

Connections

| Connector | Source | Target | Notes |
|-----------------------------------|------------------------------------|---|-------|
| <u>Association</u> Unspecified | Public Public Safety Dispatcher | Public 2.0 EMS Response Administration | |
| <u>Association</u> Unspecified | Public Public Safety Dispatcher | Public 2.3 Dispatch EMS Personnel | |

| Connector | Source | Target | Notes |
|-----------------------------------|--|---|-------|
| Association Unspecified | Public 2.1 Provide EMS Incident Notification | Public Public Safety Dispatcher | |
| Association Unspecified | Public Public Safety Dispatcher | Public 2.2 Assess EMS Incident Notice | |

Regulator

Type: **Actor**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Use Case Actors *Keywords:*
Detail: Created on 7/13/2009. Last modified on 7/19/2009.
GUID: {FD642693-DB38-40ac-8D35-769ED084651B}

A public authority or government agency responsible for exercising autonomous authority over emergency medical agency activities.

Connections

| Connector | Source | Target | Notes |
|-----------------------------------|---|--|-------|
| Association Unspecified | Public 1.3 Monitor Agency Performance | Public Regulator | |
| Association Unspecified | Public 1.2 Certify EMS Agency | Public Regulator | |
| Association Unspecified | Public Regulator | Public 1.0 EMS Agency Administration | |

EMS DAM Interactions

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Behavioral Model
Detail: Created on 7/19/2009. Last modified on 7/19/2009
GUID: {4C16E89B-B49B-4889-825F-298040C5512F}

EMS DAM Interactions - (Sequence diagram)

Created By: AbdulMalik Shakir on 7/19/2009
Last Modified: 7/19/2009

Version: 1.0. *Locked:* False
GUID: {2873EC89-05E4-4a8d-8FC8-092D4F4FCFBC}

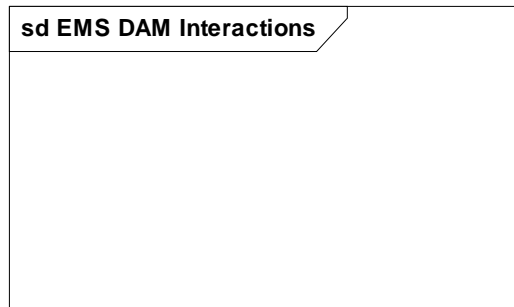


Figure: 14

EMS DAM Static Information Model

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS Domain Analysis Model
Detail: Created on 6/16/2009. Last modified on 7/15/2009
GUID: {52AFADBB-5A36-4339-ACE6-71B5D754C6B1}

EMS DAM Static Information Model - (Package diagram)

Created By: Salimah Shakir on 6/16/2009
Last Modified: 8/26/2009
Version: 1.0. *Locked:* False
GUID: {418FB983-231A-4ff0-959D-B863E04ACF9A}

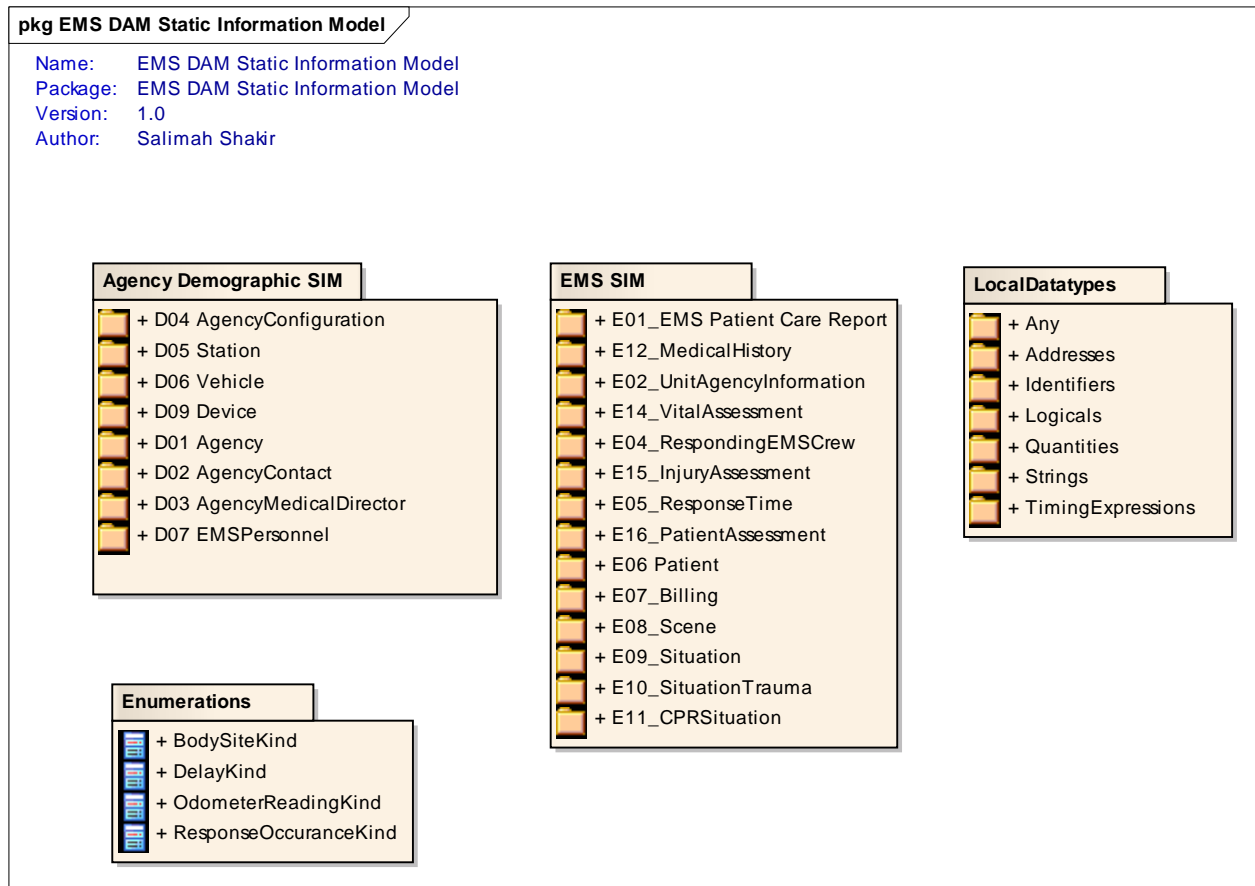


Figure: 15

Agency Demographic SIM

Type: Package
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Static Information Model
Detail: Created on 7/1/2001. Last modified on 6/16/2009
GUID: {1119FB6F-B9F9-4bab-90E6-182B4E7D984D}

Agency Demographic Package Diagram - (Package diagram)

Created By: Salimah Shakir on 5/16/2009
Last Modified: 8/12/2009
Version: 1.0. **Locked:** False
GUID: {29F31041-4826-49d5-BDA7-9479D68A9FDB}

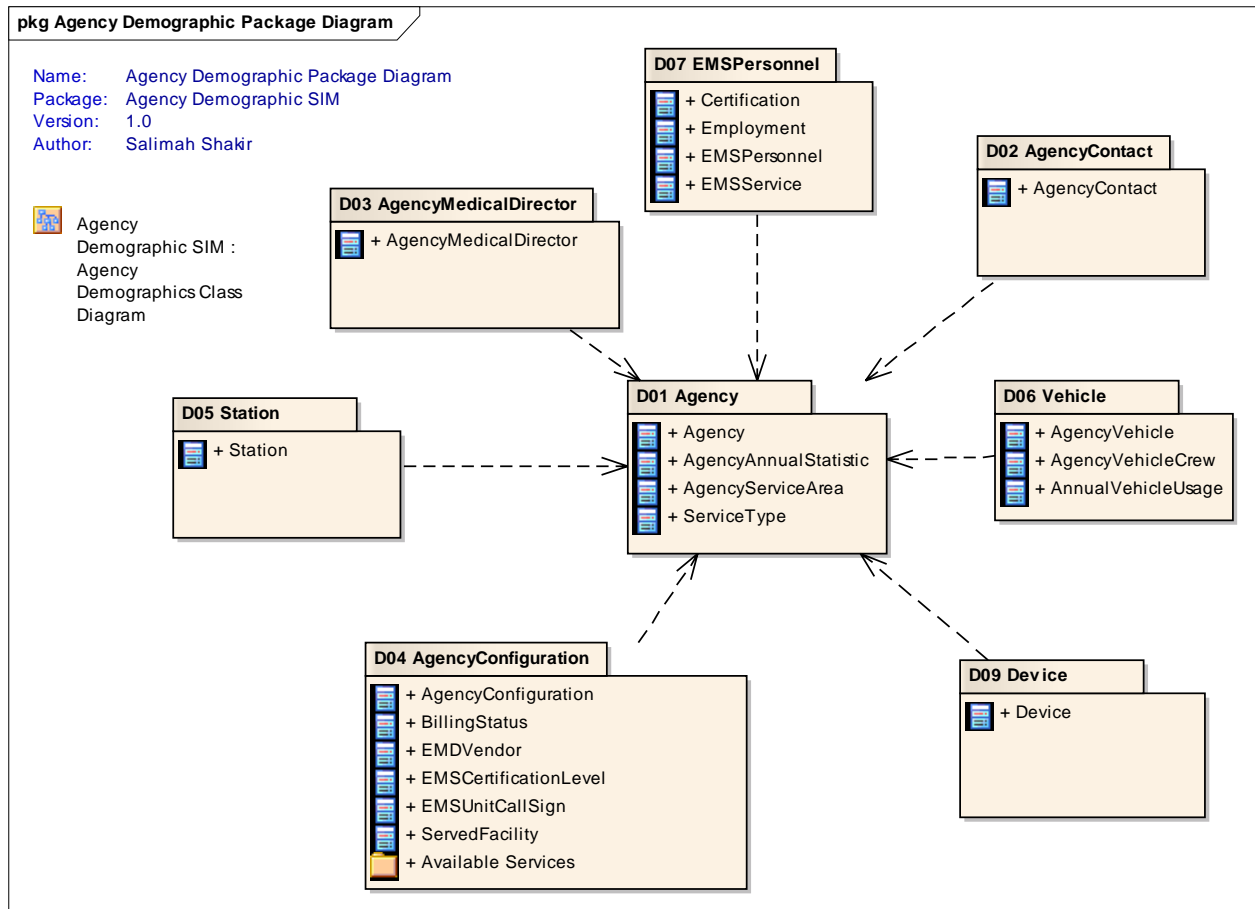


Figure: 16

Agency Demographics Class Diagram - (Logical diagram)

Created By: Salimah Shakir on 6/16/2009

Last Modified: 6/18/2009

Version: 1.0. Locked: False

GUID: {602D06D5-F9DC-4f23-B292-326213B2F171}

| Connector | Source | Target | Notes |
|---|---------------------------------|-------------------------|--|
| Association isAffiliatedWith Unspecified | Public DispatchedUnit | Public Agency | Each DispatchedUnit always isAffiliatedWith one Agency. Each Agency sometimes isAffiliatedWith one or more DispatchedUnit. |
| Association pertainsTo Unspecified | Public AgencyAnnualStatistic | Public Agency | Each AgencyAnnualStatistic always pertainsTo one Agency. Each Agency sometimes isTheSubjectOf one or more AgencyAnnualStatistic. |
| Association isProvidedBy Unspecified | Public ServiceType | Public Agency | Each ServiceType always isProvidedBy one Agency. Each Agency sometimes provides one or more ServiceType. |
| Association isProvidedBy Unspecified | Public Employment | Public Agency | Each Employment always isProvidedBy one Agency. Each Agency sometimes provides one or more Employment. |
| Association isAffiliatedWith Unspecified | Public AgencyContact | Public Agency | Each AgencyContact always isAffiliatedWith one Agency. Each Agency sometimes isAffiliatedWith one or more AgencyContact. |
| Association isAffiliatedWith Unspecified | Public Station | Public Agency | Each Station always isAffiliatedWith one Agency. Each Agency sometimes isAffiliatedWith one or more Station. |
| Association isOwnedBy Unspecified | Public AgencyVehicle | Public Agency | Each AgencyVehicle always isOwnedBy one Agency. Each Agency sometimes owns one or more AgencyVehicle. |
| Association pertainsTo Unspecified | Public AgencyConfiguration | Public Agency | Each AgencyConfiguration always pertainsTo one Agency. Each Agency sometimes isTheSubjectOf one or more AgencyConfiguration . |
| Association isAffiliatedWith Unspecified | Public source Agency | Public target Agency | Each Agency sometimes isAffiliatedWith one or more Agency. Each Agency sometimes isAffiliatedWith one or more Agency. |
| Association isOwnedBy Unspecified | Public Device | Public Agency | Each Device always isOwnedBy one Agency. |

| Connector | Source | Target | Notes |
|---|-----------------------------|------------------|---|
| | | | Each Agency sometimes owns one or more Device. |
| Association isServicedBy Unspecified | Public AgencyServiceArea | Public Agency | Each AgencyServiceArea always isServicedBy one Agency. Each Agency sometimes services one or more AgencyServiceArea. |
| Association isAffiliatedWith Unspecified | Public PatientCareReport | Public Agency | Each PatientCareReport always isAffiliatedWith one Agency. Each Agency sometimes isAffiliatedWith one or more PatientCareReport. |
| Association isAffiliatedWith Unspecified | Public EMSSoftware | Public Agency | |

Attributes

| Attribute | Notes | Constraints and tags |
|---|--|--|
| identifier II Private Collection [1..*] | The state-assigned provider number of the responding agency. | <i>Default:</i> NEMESIS Reference: { D01_01 EMS Agency Number } |
| name EN.ON Private [0..1] | A non unique textual identifier that constitutes the distinctive designation of an agency. | <i>Default:</i> NEMESIS Reference: { D01_11 Other Agencies In Area } NEMESIS Reference: { D01_02 EMS Agency Name } |
| serviceLevelCode CD Private | A coded value specifying the highest level of service the agency is capable of sending to perform any specific duty. | <i>Default:</i> NEMESIS Reference: { D01_07 Level Of Service } |

| Attribute | Notes | Constraints and tags |
|--|--|--|
| organizationalTypeCode CD Private | A coded value specifying the specific organization type. | <i>Default:</i> <u>NEMESIS Reference:</u> { D01_08 Organization Type } |
| organizationStatusCode CD Private | A coded value specifying the primary organizational status of the agency. | <i>Default:</i> <u>NEMESIS Reference:</u> { D01_09 Organization Status } |
| timeZoneCode CD Private | A coded value specifying the time zone for the specific agency. | <i>Default:</i> <u>NEMESIS Reference:</u> { D01_19 EMS Agency Time Zone } |
| daylightSavingsTimeUseI nd BL Private | Specifies whether the agency conforms to Daylight Savings Time. | <i>Default:</i> <u>NEMESIS Reference:</u> { D01_20 EMS Agency Daylight Savings Time Use } |
| nationalProviderId II Private | The National Provider Identifier associated with National Provider System (NPS) and used in all standard HIPAA transactions. | <i>Default:</i> <u>NEMESIS Reference:</u> { D01_21 National Provider Identifier } |

AgencyAnnualStatistic

Type: Class
Status: Proposed. Version 1.0. Phase 1.0.
Package: D01 Agency *Keywords:*
Detail: Created on 5/16/2009. Last modified on 7/1/2009.
GUID: {0B081CB2-3D31-4bba-A843-09A3B96C898F}

the information stored for the organization yearly

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|------------------------------|---------------|--|
| Association pertainsTo Unspecified | Public AgencyAnnualStatistic | Public Agency | Each AgencyAnnualStatistic always pertainsTo one Agency. Each Agency sometimes isTheSubjectOf one or more AgencyAnnualStatistic. |

Attributes

| Attribute | Notes | Constraints and tags |
|--|--|---|
| statisticalYear TS Private Collection | The data and information for the period of a year. | <i>Default:</i> NEMESIS Reference: { D01_10 Statistical Year } |
| serviceAreaPopulationQty PQ Private Collection | The total population in the agency's service area based on a particular year from the census data. | <i>Default:</i> NEMESIS Reference: { D01_13 Total Service Area Population } |
| serviceAreaSizeQty PQ Private Collection | The total square miles in the agency's service area. | <i>Default:</i> NEMESIS Reference: { D01_12 Total Service Size Area } |
| callVolumeQty PQ Private Collection | The number of calls for a specific time period, such as a year. | <i>Default:</i> NEMESIS Reference: { D01_14 911 Call Volume Per Year } |

| Attribute | Notes | Constraints and tags |
|---|---|---|
| dispatchVolumeQty PQ Private Collection | The number of dispatches for specific time period, such as a year. | <i>Default:</i> NEMESIS Reference: { D01_15 EMS Dispatch Volume Per Year } |
| transportVolumeQty PQ Private Collection | The number of transports for specific time period, such as a year. | <i>Default:</i> NEMESIS Reference: { D01_16 EMS Transport Volume Per Year } |
| patientContactVolumeQty PQ Private Collection | The number of EMS patient contacts for a specific time period, such as a year. | <i>Default:</i> NEMESIS Reference: { D01_17 EMS Patient Contact Volume Per Year } |
| billableCallVolumeQty PQ Private Collection [0..1] | The number of encounters which are billable for a specific time period, such as a year. | <i>Default:</i> NEMESIS Reference: { D01_18 EMS Billable Calls Per Year } |

AgencyServiceArea

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: D01 Agency *Keywords:*
Detail: Created on 5/16/2009. Last modified on 6/2/2009.
GUID: {86983F86-8837-4fcc-83B0-2AF24637BE66}

The total square miles in the agency's service area

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|-----------|--------|--------|-------|
|-----------|--------|--------|-------|

| Connector | Source | Target | Notes |
|---|-----------------------------|------------------|---|
| Association isServicedBy Unspecified | Public AgencyServiceArea | Public Agency | Each AgencyServiceArea always isServicedBy one Agency. Each Agency sometimes services one or more AgencyServiceArea. |

Attributes

| Attribute | Notes | Constraints and tags |
|-------------------------------------|--|--|
| agencyStateId II Private | The state in which the Agency provides services. | <i>Default:</i> NEMESIS Reference: { D01_03 EMS Agency State } |
| agencyCountyId II Private | The county(s) for which the agency provides service. | <i>Default:</i> NEMESIS Reference: { D01_04 EMS Agency County } Invariant: { State ID } |

ServiceType

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: D01 Agency *Keywords:*
Detail: Created on 5/16/2009. Last modified on 6/2/2009.
GUID: {8CC552D4-574C-4d50-9FE1-90AA0B7ADBAD}

The type of service provided by an organization.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|-----------------------|------------------|---|
| Association isProvidedBy Unspecified | Public ServiceType | Public Agency | Each ServiceType always isProvidedBy one Agency. Each Agency sometimes provides one or more ServiceType. |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|--|
| serviceTypeCode CD Private [0..1] | Acoded value specifying the type of service provided by an organization. | <i>Default:</i> NEMESIS Reference: { D01_06 Other Types Of Service } NEMESIS Reference: { D01_05 Primary Type Of Service } |
| isPrimaryInd BL Private | An indicator as to whether or not the identified service type is the primary service type of the associated agency. | <i>Default:</i> |

D02 AgencyContact

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Agency Demographic SIM
Detail: Created on 5/17/2009. Last modified on 5/31/2009
GUID: {9186FFB6-0C83-40c5-A020-84ED3822B31B}

AgencyContact - (Logical diagram)

Created By: Salimah Shakir on 5/17/2009
Last Modified: 7/14/2009
Version: 1.0. *Locked:* False
GUID: {13A22F24-CE89-43cf-94C5-A9413316F254}

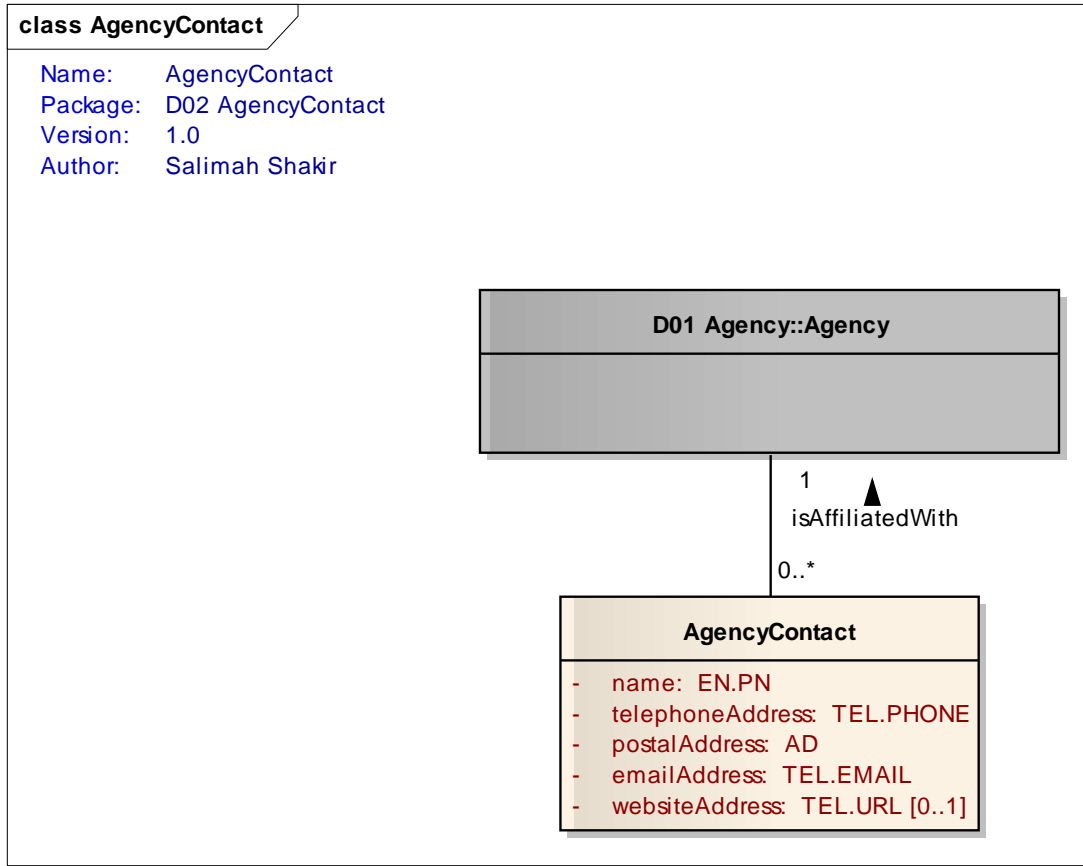


Figure: 19

AgencyContact

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: D02 AgencyContact *Keywords:*
Detail: Created on 5/17/2009. Last modified on 6/2/2009.
GUID: {517A46DF-29D6-49b0-B084-084A0BFCC752}

The contact information for a particular organization

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|-------------------------|------------------|--|
| Association isAffiliatedWith Unspecified | Public AgencyContact | Public Agency | Each AgencyContact always isAffiliatedWith one Agency. Each Agency sometimes isAffiliatedWith one or more AgencyContact. |

| Connector | Source | Target | Notes |
|-----------|--------|--------|-------|
| | | | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|--|
| name EN.PN Private | A non-unique textual identifier that constitutes the distinctive designation of an agency. | <i>Default:</i> <u>NEMSYS Reference:</u> { D02_03 Agency Contact First Name } <u>NEMSYS Reference:</u> { D02_02 Agency Contact Middle Name/ Initial } <u>NEMSYS Reference:</u> { D02_01 Agency Contact Last Name } |
| telephoneAddress TEL.PHONE Private | A number assigned to a telephone line for a specific location that is used to call that agency. | <i>Default:</i> <u>NEMSYS Reference:</u> { D02_08 Agency Contact Telephone Number } <u>NEMSYS Reference:</u> { D02_09 Agency Contact Fax Number } |
| postalAddress AD Private | The identifieg mailing location for an agency. This Includes street, city, state, and postal code. | <i>Default:</i> <u>NEMSYS Reference:</u> { D02_06 Agency Contact State } <u>NEMSYS Reference:</u> { D02_07 Agency Contact Zip } <u>NEMSYS Reference:</u> { D02_04 Agency Contact Address } <u>NEMSYS Reference:</u> { D02_05 Agency Contact City } |
| emailAddress TEL.EMAIL Private | Identifies a location to which e-mail messages can be recieved and/ or delivered for an agency. | <i>Default:</i> <u>NEMSYS Reference:</u> { D02_10 Agency Contact Email Address } |
| websiteAddress TEL.URL Private [0..1] | World Wide Web page usually containing hyperlinks to each other and made available online by an agency. | <i>Default:</i> <u>NEMSYS Reference:</u> { D02_11 Agency Contact Web Address } |

D03 AgencyMedicalDirector

Type: **Package**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: Agency Demographic SIM
 Detail: Created on 5/17/2009. Last modified on 5/31/2009
 GUID: {8C96BBDD-344C-4b34-9F7B-90E26FEF14D8}

AgencyMedicalDirector - (Logical diagram)

Created By: Salimah Shakir on 5/17/2009
 Last Modified: 7/14/2009
 Version: 1.0. Locked: False
 GUID: {ABA5F566-1C47-4be3-A566-FC45518687BB}

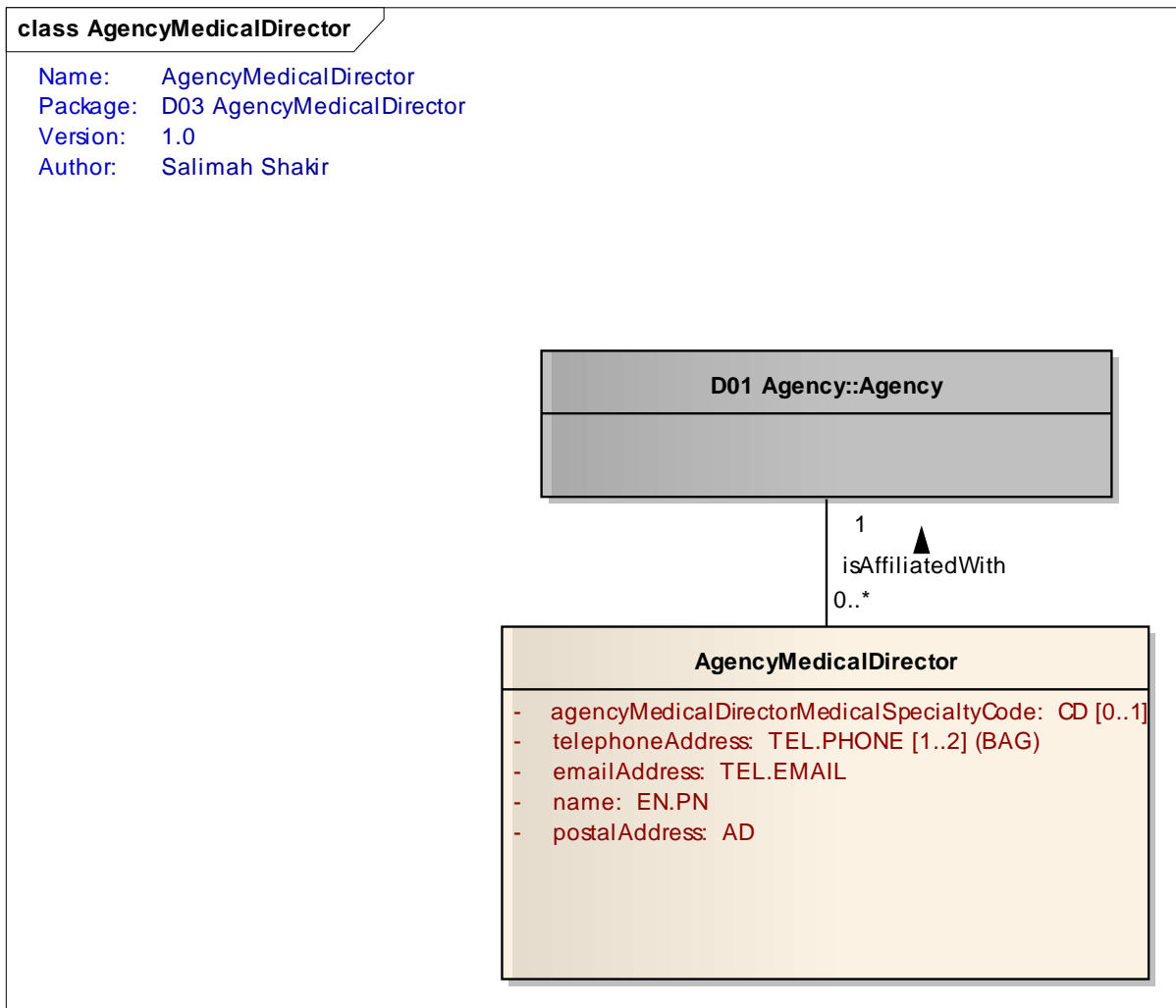


Figure: 20

AgencyMedicalDirector

Type: **Class**
 Status: Proposed. Version 1.0. Phase 1.0.

Package: D03 AgencyMedicalDirector *Keywords:*
Detail: Created on 5/17/2009. Last modified on 6/3/2009.
GUID: {EFA6AA77-AFE4-4082-9AFD-DB0A03F58C46}

a person with a directing position within the organization.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|---------------------------------|------------------|---|
| Association isAffiliatedWith Unspecified | Public AgencyMedicalDirector | Public Agency | Each AgencyMedicalDirector always isAffiliatedWith one Agency. Each Agency sometimes isAffiliatedWith one or more AgencyMedicalDirector. |

Attributes

| Attribute | Notes | Constraints and tags |
|---|---|---|
| agencyMedicalDirectorMedicalSpecialtyCode CD Private [0..1] | The primary medical specialty of the Agency Medical Director. | <i>Default:</i> <u>NEMESIS Reference:</u> { D03_10 Agency Medical Director's Medical Specialty } |
| telephoneAddress TEL.PHONE Private Collection [1..2] | A number assigned to a telephone line for a the Agency Medical Director. | <i>Default:</i> <u>NEMESIS Reference:</u> { D03_08 Agency Medical Director Telephone Number } <u>NEMESIS Reference:</u> { D03_09 Agency Medical Director Fax Number } |
| emailAddress TEL.EMAIL Private | Identifies a location to which e-mail messages can be recieved and/ or delivered for the Agency Medical Director. | <i>Default:</i> <u>NEMESIS Reference:</u> { D03_11 Agency Medical Director Email Address } |

| Attribute | Notes | Constraints and tags |
|------------------------------------|---|---|
| name EN.PN Private | The name of the Agency Medical Director. Can consist of First, Middle, and Last parts of the name. | <i>Default:</i> <u>NEMESIS Reference:</u> { D03_01 Agency Medical Director Last Name } <u>NEMESIS Reference:</u> { D03_03 Agency Medical Director First Name } <u>NEMESIS Reference:</u> { D03_02 Agency Medical Director Middle Name/ Initial } |
| postalAddress AD Private | The identifiieg mailing location for the Agency Medical Director. This Includes street, city, state, and postal code. | <i>Default:</i> <u>NEMESIS Reference:</u> { D03_04 Agency Medical Director Address } <u>NEMESIS Reference:</u> { D03_05 Agency Medical Director City } <u>NEMESIS Reference:</u> { D03_06 Agency Medical Director State } <u>NEMESIS Reference:</u> { D03_07 Agency Medical Director Zip Code } |

D04 AgencyConfiguration

Type: Package
Status: Proposed. Version 1.0. Phase 1.0.
Package: Agency Demographic SIM
Detail: Created on 5/30/2009. Last modified on 5/31/2009
GUID: {FC635EF6-6EE8-4387-9F83-610D8DBA6739}

AgencyConfiguration - (Logical diagram)

Created By: Salimah Shakir on 5/30/2009
Last Modified: 7/14/2009
Version: 1.0. *Locked:* False
GUID: {A57C4738-0DC0-4a89-AB19-FDD31F31BEE3}

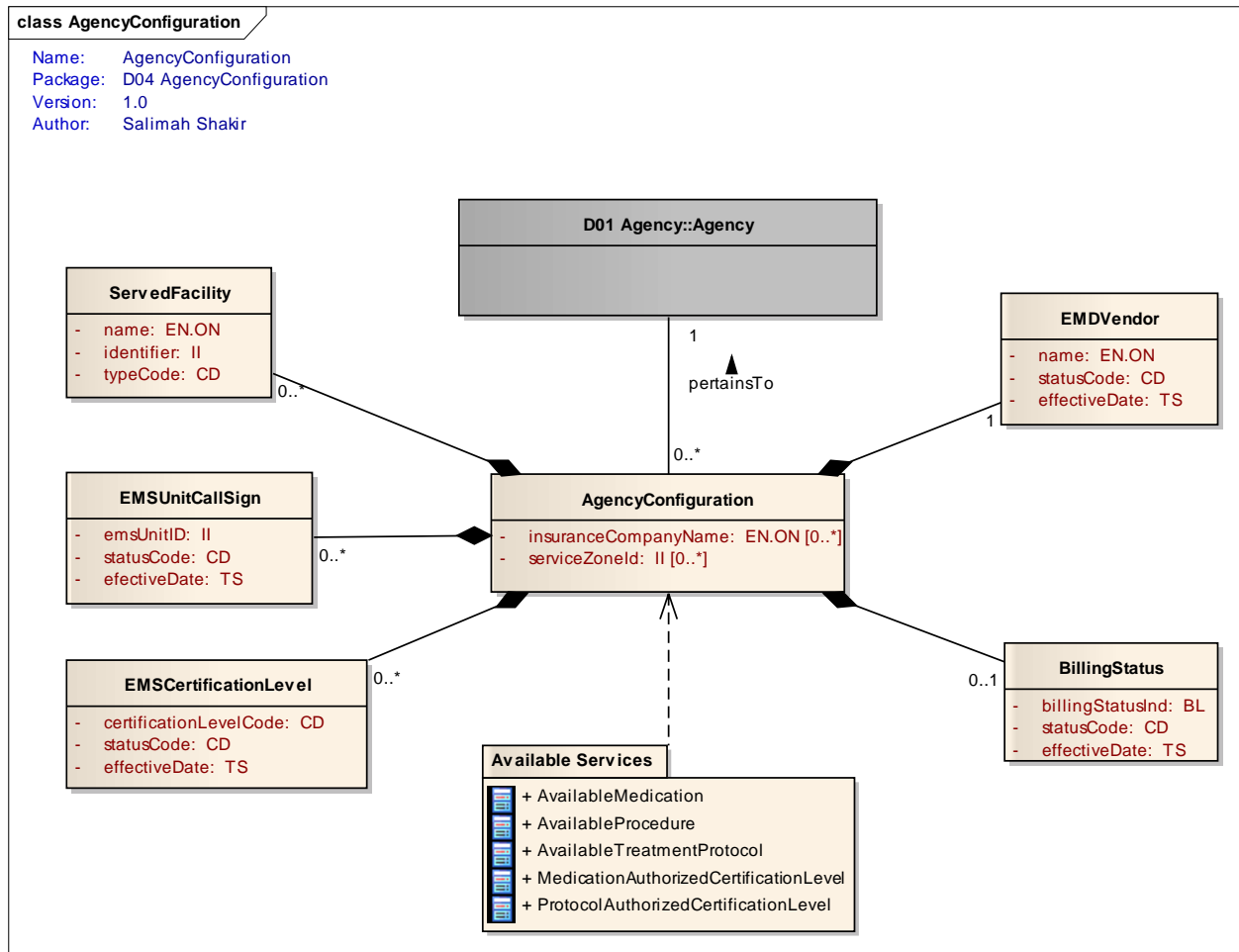


Figure: 21

AgencyConfiguration

Type: **Class**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: D04 AgencyConfiguration **Keywords:**
 Detail: Created on 5/30/2009. Last modified on 6/16/2009.
 GUID: {B7370CEB-507F-4faf-B0E5-0AFBBFE113CA}

information pertaining to insurance companies which are prevalent in the Agencies service area

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|---------------------------------|-------------------------------|-------|
| Aggregation Source -> Destination | Public EMSCertificationLevel | Public AgencyConfiguration | |

| Connector | Source | Target | Notes |
|---|-----------------------------------|----------------------------|---|
| Association pertainsTo Unspecified | Public AgencyConfiguration | Public Agency | Each AgencyConfiguration always pertainsTo one Agency. Each Agency sometimes isTheSubjectOf one or more AgencyConfiguration . |
| Dependency Source -> Destination | Public Available Services | Public AgencyConfiguration | |
| Aggregation Source -> Destination | Public AvailableTreatmentProtocol | Public AgencyConfiguration | |
| Aggregation Source -> Destination | Public BillingStatus | Public AgencyConfiguration | |
| Aggregation Source -> Destination | Public ServedFacility | Public AgencyConfiguration | |
| Aggregation Source -> Destination | Public EMDVendor | Public AgencyConfiguration | |
| Aggregation Source -> Destination | Public AvailableProcedure | Public AgencyConfiguration | |
| Aggregation Source -> Destination | Public AvailableMedication | Public AgencyConfiguration | |
| Aggregation Source -> Destination | Public EMSUnitCallSign | Public AgencyConfiguration | |

Attributes

| Attribute | Notes | Constraints and tags |
|---|---|--|
| insuranceCompanyName EN.ON Private Collection [0..*] | A list of insurance companies which are prevalent in the Agencies service area. | <i>Default:</i> NEMESIS Reference: { D04_16 Insurance Companies Used } |
| serviceZoneId II Private Collection [0..*] | The geographic zones used by an agency to divide the service area into smaller geographic components. These zones can be defined locally using any method which will allow easy assignment of locations to their respective zone. | <i>Default:</i> NEMESIS Reference: { D04_03 Zones } |

BillingStatus

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: D04 AgencyConfiguration *Keywords:*
Detail: Created on 5/30/2009. Last modified on 6/3/2009.
GUID: {79343CAB-A4F0-4385-AE0F-56DADB185B76}

information pertaining to the bills for any segment of the patient population for a particular organization

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|-------------------------|-------------------------------|-------|
| Aggregation Source -> Destination | Public BillingStatus | Public AgencyConfiguration | |

Attributes

| Attribute | Notes | Constraints and tags |
|---------------------------------------|---|---|
| billingStatusInd BL Private | Indication of whether the organization routinely bills for any segment of the patient population. | <i>Default:</i> NEMESIS Reference: { D04_10 Billing Status } |
| statusCode CD Private | A coded value specifying the state or condition with respect to circumstances. | <i>Default:</i> NEMESIS Reference: { D04_10 Billing Status } |
| effectiveDate TS Private | The date on which the corresponding class subject has taken place. | <i>Default:</i> NEMESIS Reference: { D04_10 Billing Status } |

EMDVendor

Type: **Class**

Status: Proposed. Version 1.0. Phase 1.0.
Package: D04 AgencyConfiguration *Keywords:*
Detail: Created on 5/30/2009. Last modified on 6/3/2009.
GUID: {9DF32C64-FFB7-483a-A83E-C8974FEA80FE}

The Vendor or Company associated with the EMD Card set and algorithms

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|---------------------|-------------------------------|-------|
| Aggregation Source -> Destination | Public EMDVendor | Public AgencyConfiguration | |

Attributes

| Attribute | Notes | Constraints and tags |
|------------------------------------|---|---|
| name EN.ON Private | A non-unique textual identifier that constitutes the distinctive designation of a vendor. | <i>Default:</i> <u>NEMESIS Reference:</u> { D04_17 EMD Vendor } |
| statusCode CD Private | A coded value specifying the state or condition with respect to the vendor. | <i>Default:</i> <u>NEMESIS Reference:</u> { D04_17 EMD Vendor } |
| effectiveDate TS Private | The date on which the vendor is effective. | <i>Default:</i> <u>NEMESIS Reference:</u> { D04_17 EMD Vendor } |

EMSCertificationLevel

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: D04 AgencyConfiguration *Keywords:*

Detail: Created on 5/30/2009. Last modified on 6/3/2009.
GUID: {91E79983-470A-457a-A9DA-EFC1E2974060}

All of the potential levels of certification/licensure for personnel recognized by the state

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|---------------------------------|-------------------------------|-------|
| Aggregation Source -> Destination | Public EMSCertificationLevel | Public AgencyConfiguration | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|--|
| certificationLevelCode CD Private | A coded value specifying the potential levels of certification/licensure for personnel recognized by the state. | <i>Default:</i> <u>NEMESIS Reference:</u> { D04_01 State Certification Licensure Levels } |
| statusCode CD Private | A coded value specifying the state or condition with respect to circumstances. | <i>Default:</i> <u>NEMESIS Reference:</u> { D04_01 State Certification Licensure Levels } |
| effectiveDate TS Private | The date on which the corresponding class subject has taken place. | <i>Default:</i> <u>NEMESIS Reference:</u> { D04_01 State Certification Licensure Levels } |

EMSUnitCallSign

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: D04 AgencyConfiguration *Keywords:*
Detail: Created on 5/30/2009. Last modified on 7/13/2009.
GUID: {DC214DFE-825D-4080-A824-FAC493A9FF58}

The EMS unit number used to dispatch and communicate with the unit. This may be the same as the EMS Unit/Vehicle Number in many agencies.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|---------------------------|-------------------------------|--|
| <u>Association</u> isAffiliatedWith Unspecified | Public DispatchedUnit | Public EMSUnitCallSign | Each DispatchedUnit always isAffiliatedWith one EMSUnitCallSign. Each EMSUnitCallSign sometimes isAffiliatedWith one or more DispatchedUnit. |
| <u>Aggregation</u> Source -> Destination | Public EMSUnitCallSign | Public AgencyConfiguration | |

Attributes

| Attribute | Notes | Constraints and tags |
|------------------------------------|---|---|
| emsUnitID II Private | The EMS unit number used to dispatch and communicate with the unit. This may be the same as the EMS Unit/Vehicle Number in many agencies. | <i>Default:</i> NEMESIS Reference: { D04_02 EMS Unit Call Sign } |
| statusCode CD Private | A coded value specifying the state or condition with respect to circumstances. | <i>Default:</i> NEMESIS Reference: { D04_02 EMS Unit Call Sign } |
| effectiveDate TS Private | The date on which the corresponding class subject has taken place. | <i>Default:</i> NEMESIS Reference: { D04_02 EMS Unit Call Sign } |

ServedFacility

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: D04 AgencyConfiguration *Keywords:*
Detail: Created on 5/30/2009. Last modified on 6/3/2009.
GUID: {A1047F1D-5BC9-4249-8CAE-CC714F23DD39}

A list of all the hospitals the agency transports to or from

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|-----------------------|----------------------------|-------|
| <u>Aggregation</u> Source -> Destination | Public ServedFacility | Public AgencyConfiguration | |

Attributes

| Attribute | Notes | Constraints and tags |
|---------------------------------|--|--|
| name EN.ON Private | A non-unique textual identifier that lists all the hospitals the agency transports to or from. | <i>Default:</i> <u>NEMESIS Reference:</u> { D04_13 Other Destinations } <u>NEMESIS Reference:</u> { D04_11 Hospitals Served } |
| identifier II Private | The state assigned licensure number (code) for each Hospital (or other) Served (D04_11). | <i>Default:</i> <u>NEMESIS Reference:</u> { D04_14 Destination Facility Number } <u>NEMESIS Reference:</u> { D04_12 Hospital Facility Number } |
| typeCode CD Private | A coded value specifying the kind of service provided by the facility. | <i>Default:</i> <u>NEMESIS Reference:</u> { D04_15 Destination Type } |

Available Services

Type: **Package**

Status: Proposed. Version 1.0. Phase 1.0.
Package: D04 AgencyConfiguration
Detail: Created on 6/1/2009. Last modified on 6/1/2009
GUID: {989ED709-FA9E-47a0-958F-4F19F5D5EA68}

Available Services - (Logical diagram)

Created By: Salimah Shakir on 6/1/2009
Last Modified: 6/30/2009
Version: 1.0. *Locked:* False
GUID: {43EFAAD3-8DEF-478e-B94E-52E63700EB3A}

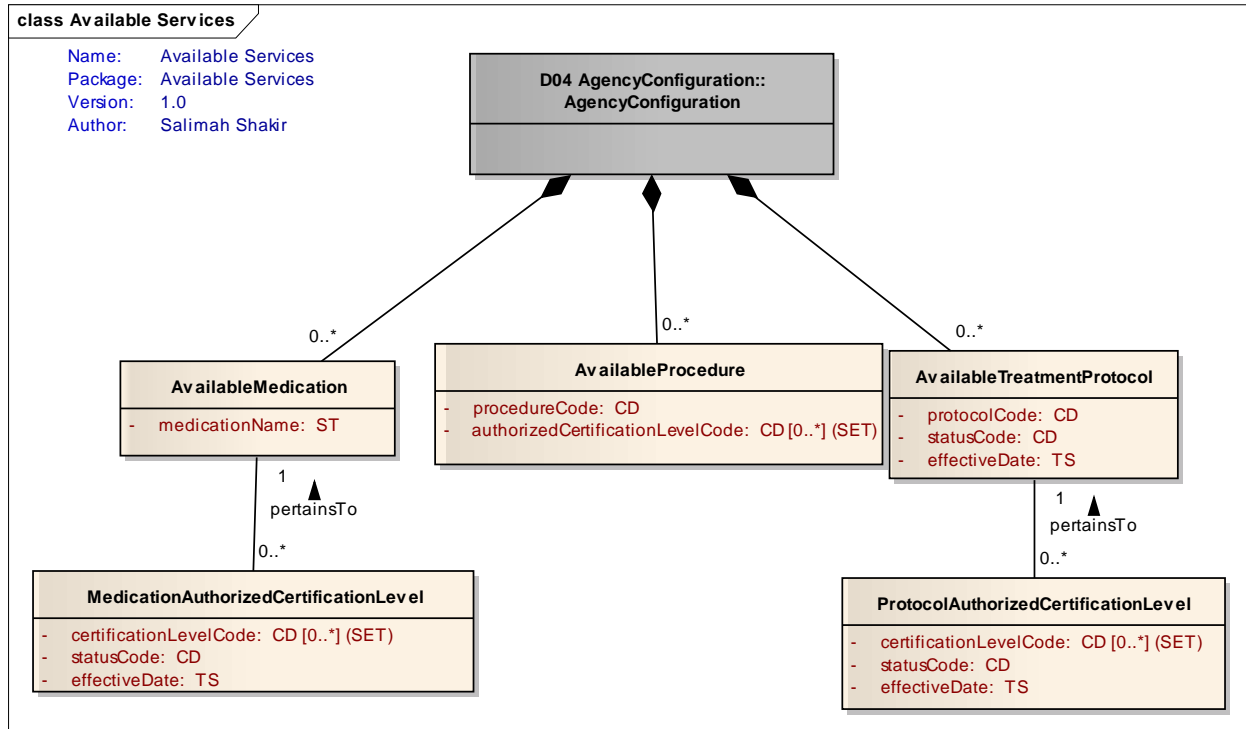


Figure: 22

AvailableMedication

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Available Services *Keywords:*
Detail: Created on 5/30/2009. Last modified on 6/3/2009.
GUID: {07301234-E2B7-4a46-9A4E-381F4200FCFB}

A list of all medications the agency has implemented and available for use

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|--|-------------------------------|-------|
| Association pertainsTo Unspecified | Public MedicationAuthorizedC ertificationLevel | Public AvailableMedication | |
| Aggregation Source -> Destination | Public AvailableMedication | Public AgencyConfiguration | |

Attributes

| Attribute | Notes | Constraints and tags |
|---|---|--|
| medicationName ST Private Collection | A list of all medications the agency has implemented and available for use. | <i>Default:</i> <u>NEMESIS Reference:</u> { D04_06 Medications Given } |

AvailableProcedure

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Available Services *Keywords:*
Detail: Created on 5/30/2009. Last modified on 6/3/2009.
GUID: {90A7A5CB-8F2D-4181-B1A3-EFA0CC945215}

A list of all procedures that the agency has implemented and available for use.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|------------------------------|-------------------------------|-------|
| Aggregation Source -> Destination | Public AvailableProcedure | Public AgencyConfiguration | |

Attributes

| Attribute | Notes | Constraints and tags |
|-----------|-------|----------------------|
|-----------|-------|----------------------|

| Attribute | Notes | Constraints and tags |
|---|--|---|
| procedureCode CD Private | A coded value specifying the list of all procedures that the agency has implemented and available for use. | <i>Default:</i> NEMESIS Reference: { D04_04 Procedures } |
| authorizedCertificationLevelCode CD Private Collection [0..*] | A coded value specifying the personnel levels which are permitted to use the associated procedure. | <i>Default:</i> NEMESIS Reference: { D04_05 Personnel Level Permitted To Use The Procedure } |

AvailableTreatmentProtocol

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Available Services *Keywords:*
Detail: Created on 5/30/2009. Last modified on 6/3/2009.
GUID: {119A20EC-CDB9-49f2-A513-2D4975400209}

A list of all of the medical treatment protocols that the agency has in place and available for use.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|---|-----------------------------------|-------|
| Association pertainsTo Unspecified | Public ProtocolAuthorizedCertificationLevel | Public AvailableTreatmentProtocol | |
| Aggregation Source -> Destination | Public AvailableTreatmentProtocol | Public AgencyConfiguration | |

Attributes

| Attribute | Notes | Constraints and tags |
|-----------|-------|----------------------|
|-----------|-------|----------------------|

| Attribute | Notes | Constraints and tags |
|---|---|--|
| protocolCode CD Private Collection | A coded value specifying the list of all of the medical treatment protocols that the agency has in place and available for use. | <i>Default:</i> <u>NEMESIS Reference:</u> { D04_08 Protocol } |
| statusCode CD Private | A coded value specifying the state or condition with respect to the circumstances. | <i>Default:</i> <u>NEMESIS Reference:</u> { D04_08 Protocol } |
| effectiveDate TS Private | the date in which the corresponding class subject has taken place | <i>Default:</i> <u>NEMESIS Reference:</u> { D04_08 Protocol } |

MedicationAuthorizedCertificationLevel

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Available Services *Keywords:*
Detail: Created on 5/30/2009. Last modified on 6/3/2009.
GUID: {C745CCF1-2FF8-4854-A0F6-00AB7ADE2C08}

All personnel levels which are permitted to use the associated medication

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|--|-------------------------------|-------|
| <u>Association</u> pertainsTo Unspecified | Public MedicationAuthorizedC ertificationLevel | Public AvailableMedication | |

Attributes

| Attribute | Notes | Constraints and tags |
|-----------|-------|----------------------|
|-----------|-------|----------------------|

| Attribute | Notes | Constraints and tags |
|--|---|--|
| certificationLevelCode CD Private Collection [0..*] | A coded value specifying the personnel levels which are permitted to use the associated medication. | <i>Default:</i> NEMESIS Reference: { D04_07 Personnel Level Permitted To Use The Medication } |
| statusCode CD Private | A coded value specifying the state or condition with respect to circumstances. | <i>Default:</i> NEMESIS Reference: { D04_07 Personnel Level Permitted To Use The Medication } |
| effectiveDate TS Private | The date on which the corresponding class subject has taken place. | <i>Default:</i> NEMESIS Reference: { D04_07 Personnel Level Permitted To Use The Medication } |

ProtocolAuthorizedCertificationLevel

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Available Services *Keywords:*
Detail: Created on 5/30/2009. Last modified on 6/3/2009.
GUID: {7DEB5295-8833-4f55-ABFF-F7FF193BFB5B}

All personnel levels which are permitted to use the associated Protocol

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|--|--------------------------------------|-------|
| Association pertainsTo Unspecified | Public ProtocolAuthorizedCertificationLevel | Public AvailableTreatmentProtocol | |

Attributes

| Attribute | Notes | Constraints and tags |
|-----------|-------|----------------------|
|-----------|-------|----------------------|

| Attribute | Notes | Constraints and tags |
|--|---|---|
| certificationLevelCode CD Private Collection [0..*] | A coded value specifying the personnel levels which are permitted to use the associated protocol. | <i>Default:</i> NEMESIS Reference: { D04_09 Personnel Level Permitted To Use Thes Protocol } |
| statusCode CD Private | A coded value specifying the state or condition with respect to circumstances. | <i>Default:</i> NEMESIS Reference: { D04_05 Personnel Level Permitted To Use The Procedure } |
| effectiveDate TS Private | The date on which the protocol certification was authorized. | <i>Default:</i> NEMESIS Reference: { D04_05 Personnel Level Permitted To Use The Procedure } |

D05 Station

Type: Package
Status: Proposed. Version 1.0. Phase 1.0.
Package: Agency Demographic SIM
Detail: Created on 5/27/2009. Last modified on 5/31/2009
GUID: {B2F99C53-4FDC-459a-8A96-2DBB11CAB35E}

Station - (Logical diagram)

Created By: Salimah Shakir on 5/27/2009
Last Modified: 6/1/2009
Version: 1.0. *Locked:* False
GUID: {A461165E-2587-463d-8BC8-55323663F549}

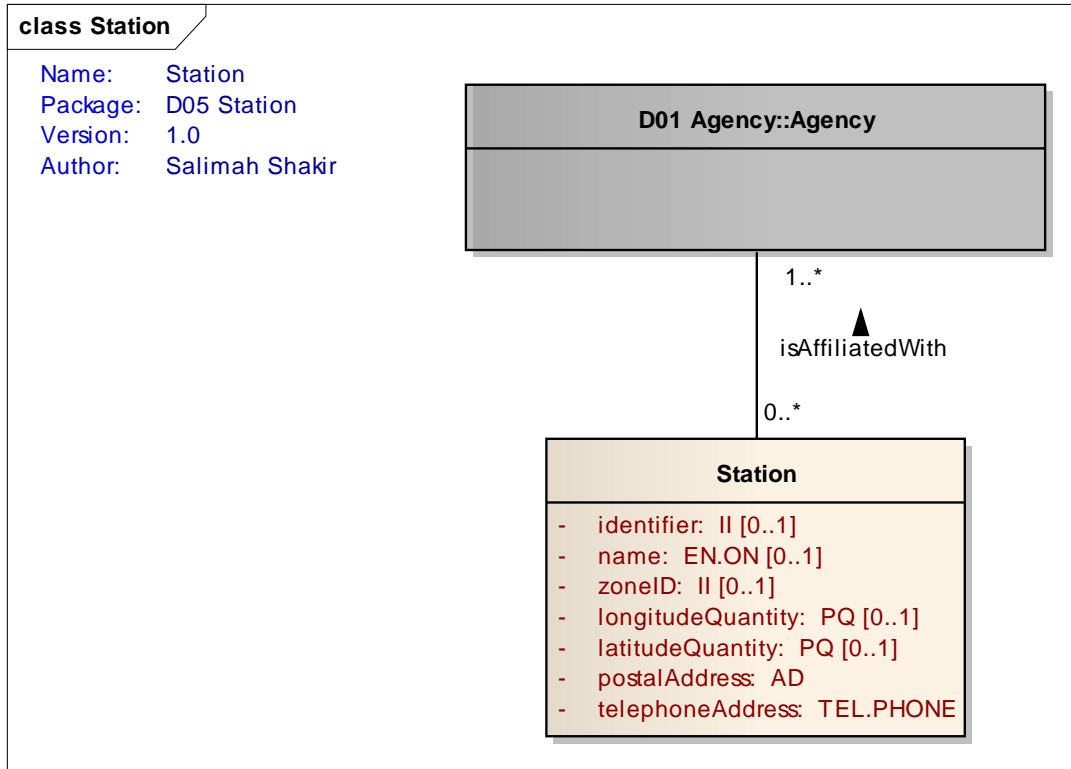


Figure: 23

Station

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: D05 Station *Keywords:*
Detail: Created on 5/27/2009. Last modified on 6/30/2009.
GUID: {E9BE373B-E1E0-4693-BA74-3FD504F160FB}

a place established to provide a public service: as a (1): fire station (2): police station

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|--------------------------|-------------------|--|
| Association isAffiliatedWith Unspecified | Public Station | Public Agency | Each Station always isAffiliatedWith one Agency. Each Agency sometimes isAffiliatedWith one or more Station. |
| Association isAffiliatedWith | Public DispatchedUnit | Public Station | Each DispatchedUnit always isAffiliatedWith one Station. |

| Connector | Source | Target | Notes |
|-------------|--------|--------|---|
| Unspecified | | | Each Station sometimes isAffiliatedWith one or more DispatchedUnit. |

Attributes

| Attribute | Notes | Constraints and tags |
|--|--|---|
| identifier II Private [0..1] | The state-assigned provider number of the responding station. | <i>Default:</i> <u>NEMESIS Reference:</u> { D05_02 Station Number } |
| name EN.ON Private [0..1] | A non unique textual identifier that constitutes the distinctive designation of a station. | <i>Default:</i> <u>NEMESIS Reference:</u> { D05_1 Station Name } |
| zoneID II Private [0..1] | A coded value specifying the time zone for the specific station. | <i>Default:</i> <u>NEMESIS Reference:</u> { D05_03 Station Zone } |
| longitudeQuantity PQ Private [0..1] | The arc or portion of the earth's equator intersected between the meridian of a given place and the prime meridian and expressed either in degrees or in time. | <i>Default:</i> <u>NEMESIS Reference:</u> { D05_04 Station GPS } |
| latitudeQuantity PQ Private [0..1] | Angular distance north or south from the earth's equator measured through 90 degrees. | <i>Default:</i> <u>NEMESIS Reference:</u> { D05_04 Station GPS } |

| Attribute | Notes | Constraints and tags |
|---|---|--|
| postalAddress AD Private | The identify mailing location for a station. This Includes street, city, state, and postal code. | <i>Default:</i> <u>NEMESIS Reference:</u> { D05_05 Station Address } <u>NEMESIS Reference:</u> { D05_06 Station City } <u>NEMESIS Reference:</u> { D05_07 Station State } <u>NEMESIS Reference:</u> { D05_08 Station Zip } |
| telephoneAddress TEL.PHONE Private | A number assigned to a telephone line for a specific location that is used to call that station. | <i>Default:</i> <u>NEMESIS Reference:</u> { D03_08 Agency Medical Director Telephone Number } <u>NEMESIS Reference:</u> { D03_09 Agency Medical Director Fax Number } |

D06 Vehicle

Type: Package
Status: Proposed. Version 1.0. Phase 1.0.
Package: Agency Demographic SIM
Detail: Created on 5/30/2009. Last modified on 5/31/2009
GUID: {AA8276AD-6D12-457a-A4DD-A2DD5A594002}

Vehicle - (Logical diagram)

Created By: Salimah Shakir on 5/30/2009
Last Modified: 5/30/2009
Version: 1.0. *Locked:* False
GUID: {D70BCBB1-FF47-4b02-8C3A-EAC90CFC46E7}

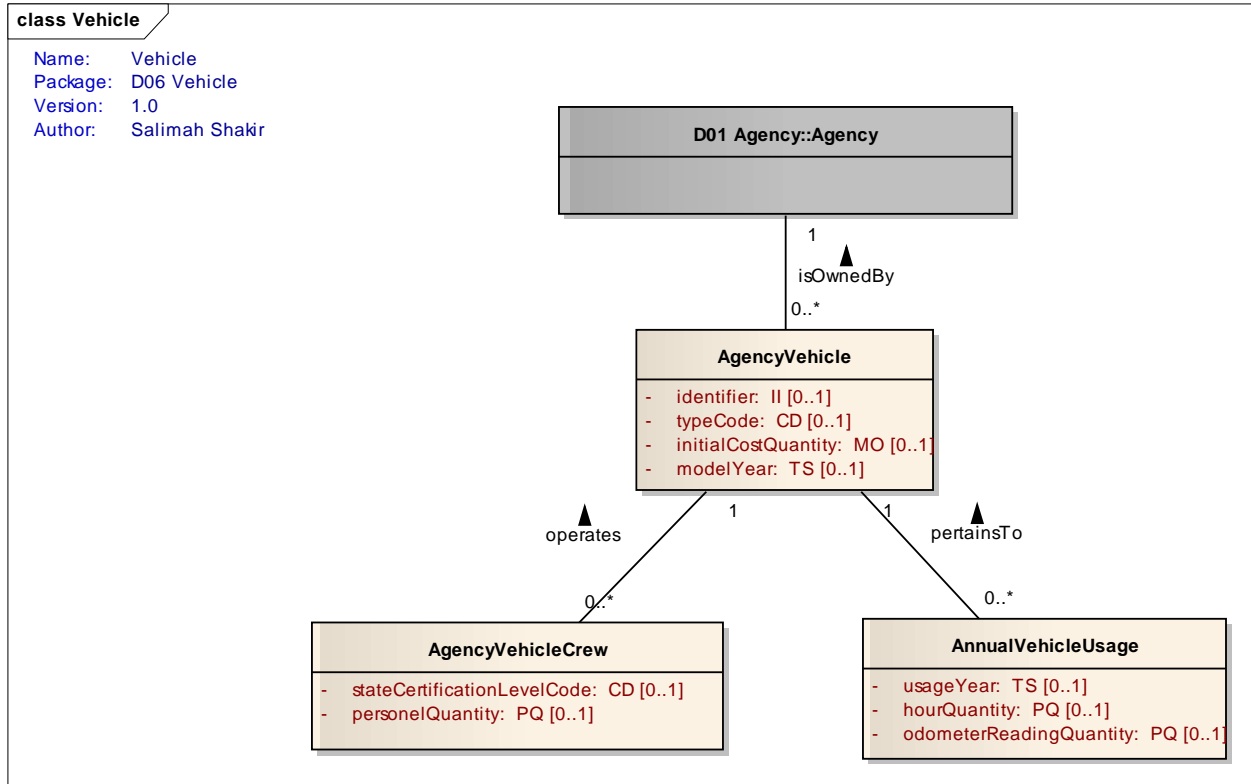


Figure: 24

AgencyVehicle

Type: Class
Status: Proposed. Version 1.0. Phase 1.0.
Package: D06 Vehicle *Keywords:*
Detail: Created on 5/30/2009. Last modified on 6/29/2009.
GUID: {A16B6F9E-4236-46e5-A14A-133139C21463}

a means of carrying or transporting something that the organization provides

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|------------------------------|-------------------------|--|
| Association isOwnedBy Unspecified | Public AgencyVehicle | Public Agency | Each AgencyVehicle always isOwnedBy one Agency. Each Agency sometimes owns one or more AgencyVehicle. |
| Association pertainsTo Unspecified | Public AnnualVehicleUsage | Public AgencyVehicle | |

| Connector | Source | Target | Notes |
|---|-----------------------------|-------------------------|--|
| Association isAffiliatedWith Unspecified | Public DispatchedUnit | Public AgencyVehicle | Each DispatchedUnit always isAffiliatedWith one AgencyVehicle. Each AgencyVehicle sometimes isAffiliatedWith one or more DispatchedUnit. |
| Association operates Unspecified | Public AgencyVehicleCrew | Public AgencyVehicle | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|--|--|
| identifier II Private [0..1] | The unique ID number of the unit which is specific for each vehicle; typically the VIN associated with the vehicle. | <i>Default:</i> <u>NEMESIS Reference:</u> { D06_01 Unit/VehicleNumber } |
| typeCode CD Private [0..1] | A coded value specifying the kind of vehicle of unit (ambulance, firetruck, etc.). | <i>Default:</i> <u>NEMESIS Reference:</u> { D06_03 Vehicle Type } |
| initialCostQuantity MO Private Collection [0..1] | The initial cost of the item excluding all medical and other equipment not associated with the item operation. This cost should be inclusive of all sources of funding including grants, donations, and any other capital. | <i>Default:</i> <u>NEMESIS Reference:</u> { D06_06 Vehicle Initial Cost } |
| modelYear TS Private Collection [0..1] | The year the vehicle was manufactured. This is defined by the year of the VIN, understanding that some parts of the unit may not be original. | <i>Default:</i> <u>NEMESIS Reference:</u> { D06_07 Vehicle Model Year } |

AgencyVehicleCrew

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: D06 Vehicle *Keywords:*

Detail: Created on 5/30/2009. Last modified on 5/30/2009.
GUID: {48934C47-512B-4111-96A0-E72D5831A53D}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|--------------------------|----------------------|-------|
| Association operates Unspecified | Public AgencyVehicleCrew | Public AgencyVehicle | |

Attributes

| Attribute | Notes | Constraints and tags |
|---|--|--|
| stateCertificationLevelCode CD Private [0..1] | A coded value specifying the personnel certification/licensure level of the personnel. | <i>Default:</i> <u>NEMESIS Reference:</u> { D06_04 State Certification/Licensure LevelsCode } |
| personelQuantity PQ Private [0..1] | The number of each personnel level associated with the vehicle crew. | <i>Default:</i> <u>NEMESIS Reference:</u> { D06_05 Number Of Each Personnel Level On The Vehicle Crew } |

AnnualVehicleUsage

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: D06 Vehicle *Keywords:*
Detail: Created on 5/30/2009. Last modified on 6/3/2009.
GUID: {F61B089B-7359-4990-869A-522AB82DA8F1 }

details pertaining to how often the vehicle was used durring a year

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|---------------------------|----------------------|-------|
| <u>Association</u> pertainsTo Unspecified | Public AnnualVehicleUsage | Public AgencyVehicle | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|--|--|
| usageYear TS Private [0..1] | The year the data was collected for the annual vehicle usage. | <i>Default:</i> <u>NEMESIS Reference:</u> { D06_08 Year Miles/Hours Accured } |
| hourQuantity PQ Private [0..1] | The number of hours the vehicle was in service for the agency for the defined year. | <i>Default:</i> <u>NEMESIS Reference:</u> { D06_09 Annual Vehicle Hours } |
| odometerReadingQuantity PQ Private [0..1] | The number of miles the vehicle accumulated in service for the agency for the defined year (Odometer Reading). | <i>Default:</i> <u>NEMESIS Reference:</u> { D06_10 Annual Vehicle Miles } |

D07 EMSPersonnel

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Agency Demographic SIM
Detail: Created on 5/16/2009. Last modified on 6/1/2009
GUID: {9C26A374-DA3B-4509-8EAD-11FCAE7234BD}

EMSPersonnel - (Logical diagram)

Created By: Salimah Shakir on 5/16/2009
Last Modified: 7/14/2009
Version: 1.0. *Locked:* False
GUID: {87FBC71A-ED22-4593-96D6-31CAC97223A2}

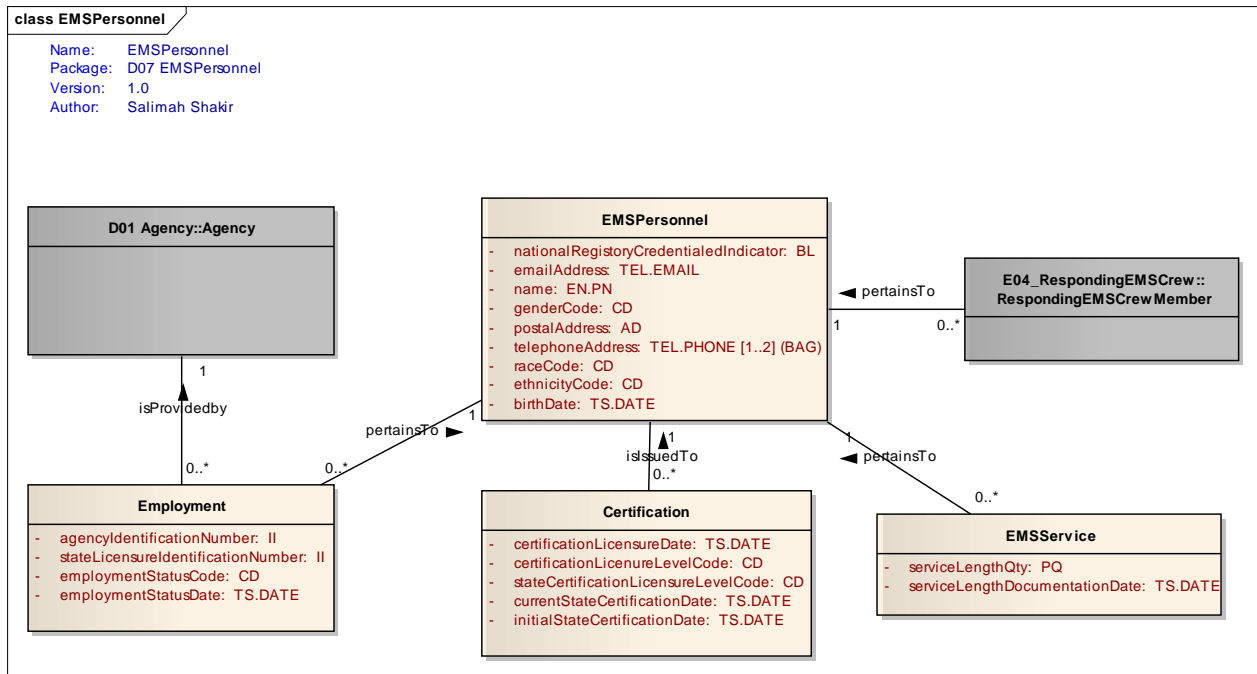


Figure: 25

Certification

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: D07 EMSPersonnel *Keywords:*
Detail: Created on 4/23/2009. Last modified on 6/3/2009.
GUID: {51E6754A-CAEE-4373-B68F-6AD0109E8E6F}

to recognize as having met special qualifications (as of a governmental agency or professional board) within a field

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|-------------------------|------------------------|-------|
| Association isIssuedTo Unspecified | Public Certification | Public EMSPersonnel | |

Attributes

| Attribute | Notes | Constraints and tags |
|-----------|-------|----------------------|
| | | |

| Attribute | Notes | Constraints and tags |
|---|--|--|
| certificationLicensureDate TS.DATE Private | The date that the Certification/Licensure was achieved. | <i>Default:</i> NEMESIS Reference: { D07_06 Date of Personnel's Certification or Licensure for Agency } |
| certificationLicensureLevelCode CD Private | A coded value specifying the personnel's highest level of certification or license | <i>Default:</i> NEMESIS Reference: { D07_05 Personnel's Level of Certification/ Licensure for Agency } |
| stateCertificationLicensureLevelCode CD Private | A coded value specifying the personnel's highest State EMS Certification level. | <i>Default:</i> NEMESIS Reference: { D08_15 State EMS Certification Licensure Level } |
| currentStateCertificationDate TS.DATE Private | The date of the personnel's current certification. | <i>Default:</i> NEMESIS Reference: { D08_17 State EMS Current Certification Date } |
| initialStateCertificationDate TS.DATE Private | The certification date of personnel's current State certification. | <i>Default:</i> NEMESIS Reference: { D08_18 Initial State Certification Date } |

EMSPersonnel

Type: Class
Status: Proposed. Version 1.0. Phase 1.0.
Package: D07 EMSPersonnel *Keywords:*
Detail: Created on 4/23/2009. Last modified on 6/3/2009.
GUID: {1188C838-D3DF-4509-B344-9F86F7A49869}

An employee of the EMS

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|---------------------------------|---------------------|--|
| Association pertainsTo Unspecified | Public EMSService | Public EMSPersonnel | |
| Association isIssuedTo Unspecified | Public Certification | Public EMSPersonnel | |
| Association pertainsTo Unspecified | Public Employment | Public EMSPersonnel | |
| Association pertainsTo Unspecified | Public RespondingEMSCrew Member | Public EMSPersonnel | Each RespondingEMSCrewMember always pertainsTo one EMSPersonnel. Each EMSPersonnel sometimes isTheSubjectOf one or more RespondingEMSCrewMember. |

Attributes

| Attribute | Notes | Constraints and tags |
|---|---|--|
| nationalRegistryCredentialedIndicator BL Private | Indication of National Registry Credential for the level of Certification/Licensure. | <i>Default:</i> <u>NEMESIS Reference:</u> { D08_16 } |
| emailAddress TEL.EMAIL Private | Identifies a location to which e-mail messages can be recieved and/ or delivered for the Agency Medical Director. | <i>Default:</i> <u>NEMESIS Reference:</u> { D08_10 EMS Personnel's Email Address } |
| name EN.PN Private | A non-unique textual identifier that constitutes the distinctive designation of the EMSPersonnel. | <i>Default:</i> <u>NEMESIS Reference:</u> { D08_01 EMS Personnel's Last Name } <u>NEMESIS Reference:</u> { D08_03 EMS Personnel's First Name } <u>NEMESIS Reference:</u> { D08_02 EMS Personnel's Middle Name/Initial } |

| Attribute | Notes | Constraints and tags |
|---|---|--|
| genderCode CD Private | A coded value specifying the gender of the EMS personnel. | <i>Default:</i> <u>NEMESIS Reference:</u> { D08_12 EMS Personnel's Gender } |
| postalAddress AD Private | The identifying mailing location for EMS personnel. This includes street, city, state, and postal code. | <i>Default:</i> <u>NEMESIS Reference:</u> { D08_04 EMS Personnel's Mailing Address } <u>NEMESIS Reference:</u> { D08_05 EMS Personnel's City of Residence } <u>NEMESIS Reference:</u> { D08_06 EMS Personnel's State } <u>NEMESIS Reference:</u> { D08_07 EMS Personnel's ZIP Code } |
| telephoneAddress TEL.PHONE Private Collection [1..2] | A number assigned to a telephone line for a specific location that is used to call that EMS personnel. | <i>Default:</i> <u>NEMESIS Reference:</u> { D08_08 EMS Personnel's Work Telephone } <u>NEMESIS Reference:</u> { D08_09 EMS Personnel's Home Telephone } |
| raceCode CD Private | A coded value specifying race of the EMS personnel. | <i>Default:</i> <u>NEMESIS Reference:</u> { D08_13 EMS Personnel's Race } |
| ethnicityCode CD Private | A coded value specifying the ethnicity of the EMS personnel. | <i>Default:</i> <u>NEMESIS Reference:</u> { D08_14 EMS Personnel's Ethnicity } |
| birthDate TS.DATE Private | The date, month, and year of birth for the EMS personnel. | <i>Default:</i> <u>NEMESIS Reference:</u> { D08_11 EMS Personnel's Date Of Birth } |

EMSService

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: D07 EMSPersonnel *Keywords:*
Detail: Created on 4/23/2009. Last modified on 6/3/2009.
GUID: {90F0E6D1-8969-41ae-9B29-87A6DDB9C99D}

Details of services and procedures provided by the EMS

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|-------------------|---------------------|-------|
| Association pertainsTo Unspecified | Public EMSService | Public EMSPersonnel | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|--|---|
| serviceLengthQty PQ Private | The EMS personnel's total length of active service at any level. | <i>Default:</i> NEMESIS Reference: { D08_19 Total Length of Service } |
| serviceLengthDocumenta tionDate TS.DATE Private | The date which the length of service was documented. | <i>Default:</i> NEMESIS Reference: { D08_20 Date Length of Service Documented } |

Employment

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: D07 EMSPersonnel *Keywords:*
Detail: Created on 4/23/2009. Last modified on 6/3/2009.
GUID: {DA5984EB-25A3-4aff-8EA9-A2DF1CA3A8DE}

the work status of personnel

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|----------------------|------------------------|---|
| Association isProvidedBy Unspecified | Public Employment | Public Agency | Each Employment always isProvidedBy one Agency. Each Agency sometimes provides one or more Employment. |
| Association pertainsTo Unspecified | Public Employment | Public EMSPersonnel | |

Attributes

| Attribute | Notes | Constraints and tags |
|---|---|--|
| agencyIdentificationNumber II Private | ID number for personnel assigned by agency. | <i>Default:</i> <u>NEMESIS Reference:</u> { D07_01 Personnel's Agency ID Number } |
| stateLicensureIdentificationNumber II Private | The state certification/licensure ID number assigned to the personnel. | <i>Default:</i> <u>NEMESIS Reference:</u> { D07_02 State/Licensure ID Number } |
| employmentStatusCode CD Private | A coded value specifying the personnel's employment status for a specific agency. | <i>Default:</i> <u>NEMESIS Reference:</u> { D07_03 Personnel's Employment Status } |
| employmentStatusDate TS.DATE Private | The date of the personnel's employment status for a specific agency. | <i>Default:</i> <u>NEMESIS Reference:</u> { D07_04 Employment Status Date } |

D09 Device

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Agency Demographic SIM
Detail: Created on 6/16/2009. Last modified on 6/16/2009
GUID: {4FA635EF-0C5B-409d-BFF1-5F8AEF5F1FEF}

D09 Device - (Logical diagram)

Created By: AbdulMalik Shakir on 6/16/2009
Last Modified: 6/16/2009
Version: 1.0. *Locked:* False
GUID: {A1B0F250-C4EB-4ded-A969-3482DCF2B532}

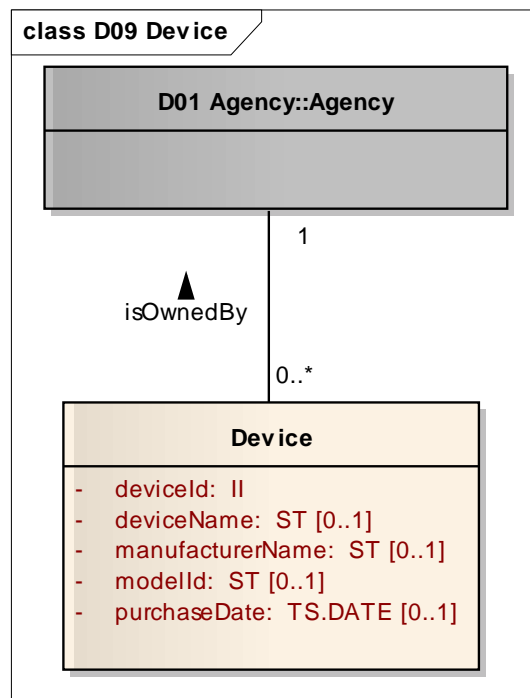


Figure: 26

Device

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: D09 Device *Keywords:*
Detail: Created on 6/16/2009. Last modified on 6/16/2009.
GUID: {8B4DAB0D-91C7-4dd2-A0D2-328943A084BE}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|------------------|------------------|--|
| Association isOwnedBy Unspecified | Public Device | Public Agency | Each Device always isOwnedBy one Agency. Each Agency sometimes owns one or more Device. |

Attributes

| Attribute | Notes | Constraints and tags |
|---|---|---|
| deviceId II Private | The serial number for a specific medical device. | <i>Default:</i> NEMESIS Reference: { D09_01 Device Serial Number } |
| deviceName ST Private [0..1] | A word or phrase that constitutes the distinctive designation of a person or thing. | <i>Default:</i> NEMESIS Reference: { D09_02 Device Name Or Id } |
| manufacturerName ST Private [0..1] | A word or phrase that constitutes the distinctive designation of a person or thing. | <i>Default:</i> NEMESIS Reference: { D09_03 Device Manufacturer } |
| modelId ST Private [0..1] | The specific manufacturer's model number associated with medical device. | <i>Default:</i> NEMESIS Reference: { D09_04 Model Number } |

| Attribute | Notes | Constraints and tags |
|--|---|--|
| <p>purchaseDate TS.DATE Private</p> <p>[0..1]</p> | <p>The date the device was purchased.</p> | <p><i>Default:</i> NEMESIS Reference: { D09_05 Device Purchase Date }</p> |

EMS SIM

Type: Package
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Static Information Model
Detail: Created on 6/16/2009. Last modified on 6/16/2009
GUID: {0259C233-A3FE-4d93-A3F6-23A0CC96D591}

EMS SIM Class Diagram - (Logical diagram)

Created By: Salimah Shakir on 6/30/2009
Last Modified: 7/14/2009
Version: 1.0. **Locked:** False
GUID: {1F1D53B2-D8EB-46c2-B8CB-CC7AA77CD446}

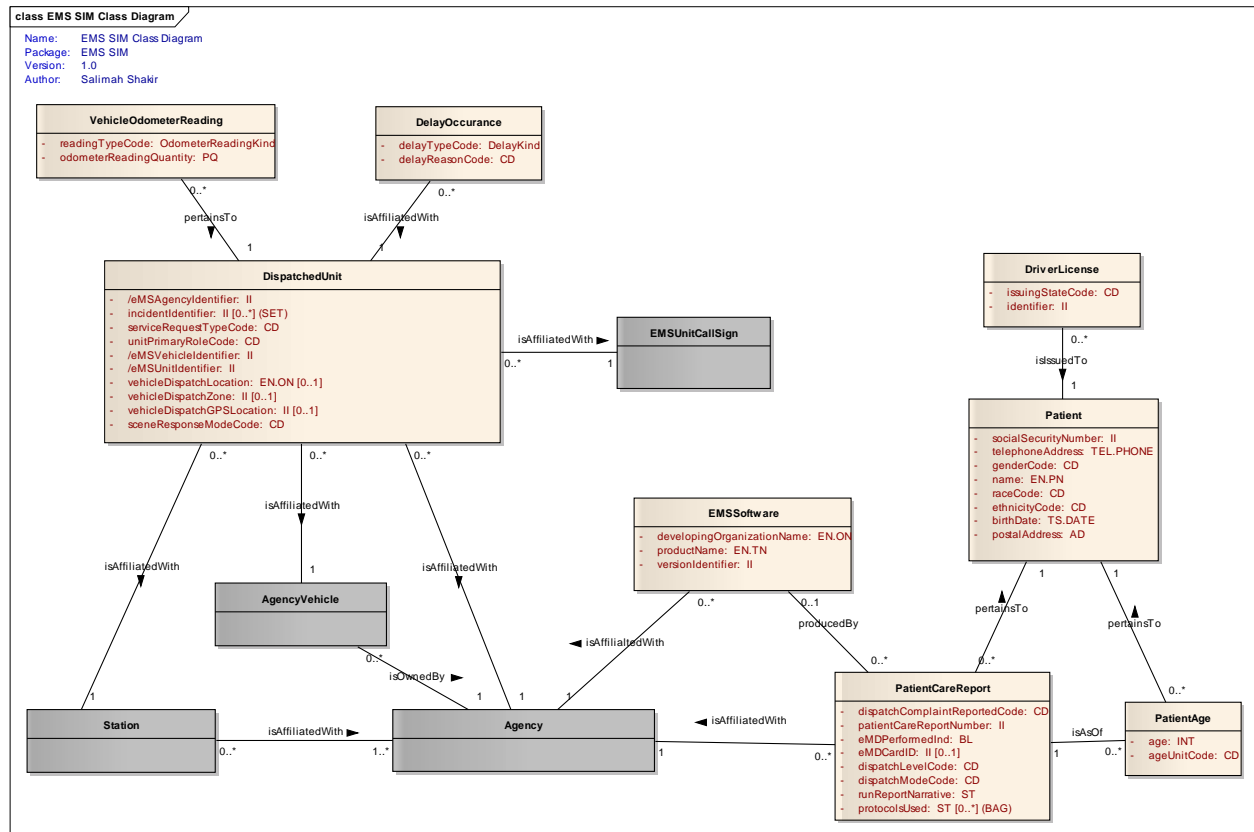


Figure: 27

EMS SIM Package Diagram - (Package diagram)

Created By: Salimah Shakir on 6/16/2009
 Last Modified: 8/12/2009
 Version: 1.0. Locked: False
 GUID: {B65340C7-E0C8-4541-959D-D1AA5192E1C5}

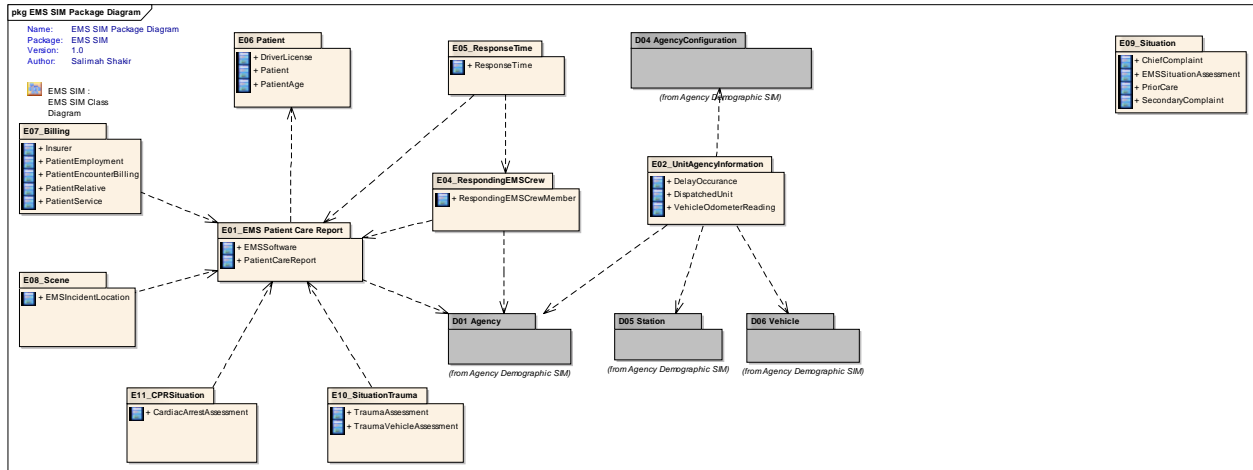


Figure: 28

EMS SIM : EMS SIM Class Diagram

Type: **Text**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: EMS SIM **Keywords:**
 Detail: Created on 6/30/2009. Last modified on 6/30/2009.
 GUID: {EAB5F527-6BF3-46cd-A95F-0FDC90732C9E}

EMS SIM : EMS SIM Class Diagram

E01_EMS Patient Care Report

Type: **Package**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: EMS SIM
 Detail: Created on 6/30/2009. Last modified on 6/30/2009
 GUID: {922671D6-1E33-4b4a-B004-415DA0625671}

E01_EMS Patient Care Report - (Logical diagram)

Created By: Salimah Shakir on 6/30/2009
 Last Modified: 8/25/2009
 Version: 1.0. Locked: False

GUID: {5EB1A437-1821-44a8-8CD9-6EA77F16BC6C}

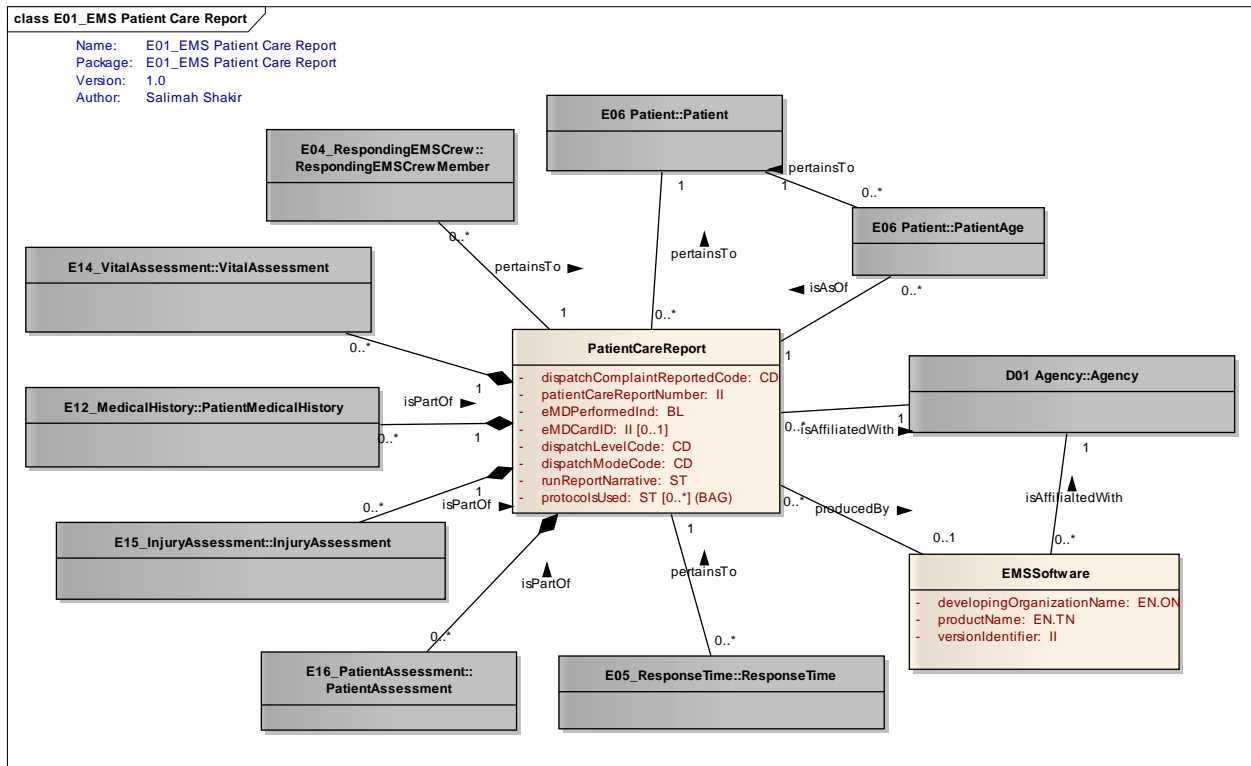


Figure: 29

EMSSoftware

Type: **Class**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: E01_EMS Patient Care Report *Keywords:*
 Detail: Created on 6/29/2009. Last modified on 7/28/2009.
 GUID: {1B5AF9A8-D9A8-4113-B7F8-54C34C5DCF8E}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|--------------------------|--------------------|-------|
| <u>Association</u> producedBy Unspecified | Public PatientCareReport | Public EMSSoftware | |
| <u>Association</u> isAffiliatedWith Unspecified | Public EMSSoftware | Public Agency | |

| Connector | Source | Target | Notes |
|-----------|--------|--------|-------|
| | | | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|--|
| developingOrganizationName EN.ON Private | The name of the software vendor by whom the data collection software was developed. | <i>Default:</i> <u>NEMESIS Reference:</u> { E01_02 Software Creator } |
| productName EN.TN Private | The name of the software package with which the data was collected by the agency | <i>Default:</i> <u>NEMESIS Reference:</u> { E01_03 Software Name } |
| versionIdentifier II Private | The version of the software used by the agency to collect the data | <i>Default:</i> <u>NEMESIS Reference:</u> { E01_04 Software Version } |

PatientCareReport

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: E01_EMS Patient Care Report *Keywords:*
Detail: Created on 6/30/2009. Last modified on 6/30/2009.
GUID: {F9C5469D-3616-416a-8A72-BF14791B2DA2}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|-----------------------------------|-----------------------------------|-----------------------------|-------|
| <u>Association</u> Unspecified | Public CardiacArrestAssessment | Public PatientCareReport | |

| Connector | Source | Target | Notes |
|--|-----------------------------------|-----------------------------|---|
| Association Unspecified | Public PatientEncounterBilling | Public PatientCareReport | |
| Association pertainsTo Unspecified | Public ResponseTime | Public PatientCareReport | Each ResponseTime always pertainsTo one PatientCareReport. Each PatientCareReport sometimes isTheSubjectOf one or more ResponseTime. |
| Association Unspecified | Public EMSIcidentLocation | Public PatientCareReport | |
| Association Unspecified | Public EMSSituationAssessment | Public PatientCareReport | |
| Association Unspecified | Public TraumaAssessment | Public PatientCareReport | |
| Association isPartOf Unspecified | Public InjuryAssessment | Public PatientCareReport | Each InjuryAssessment always is part of one PatientCareReport Each PatientCareReport sometimes includes one or more InjuryAssessment |
| Association isPartOf Unspecified | Public PatientMedicalHistory | Public PatientCareReport | Each MedicalHistory always is part of one PatientCareReport. Each PatientCareReport sometimes includes one or more MedicalHistory. |
| Association isPartOf Unspecified | Public PatientAssessment | Public PatientCareReport | Each Assessment always is part of one PatientCareReport. Each PatientCareReport sometimes includes one or more Assessment. |
| Association isPartOf Unspecified | Public VitalAssessment | Public PatientCareReport | Each Assessment/VitalSigns always is part of one PatientCareReport. Each PatientCareReport sometimes includes one or more Assessment/VitalSigns. |
| Association isAsOf Unspecified | Public PatientAge | Public PatientCareReport | Each PatientAge always isAsOf one PatientCareReport. Each PatientCareReport sometimes isReferencePointFor one or more PatientAge. |
| Association producedBy Unspecified | Public PatientCareReport | Public EMSSoftware | |
| Association pertainsTo | Public | Public | Each PatientCareReport always |

| Connector | Source | Target | Notes |
|---|---------------------------------------|-----------------------------|--|
| Unspecified | PatientCareReport | Patient | pertains to one Patient. Each Patient sometimes is the subject of one or more PatientCareReport. |
| Association isAffiliatedWith Unspecified | Public PatientCareReport | Public Agency | Each PatientCareReport always isAffiliatedWith one Agency. Each Agency sometimes isAffiliatedWith one or more PatientCareReport. |
| Association pertainsTo Unspecified | Public RespondingEMSCrew Member | Public PatientCareReport | Each RespondingEMSCrewMember always pertainsTo one PatientCareReport. Each PatientCareReport sometimes isTheSubjectOf one or more RespondingEMSCrewMember . |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|---|
| dispatchComplaintReportCode CD Private | The complaint dispatch reported to the responding unit. | <i>Default:</i> NEMESIS Reference: { E03_01 Complaint Reported by Dispatch } |
| patientCareReportNumber II Private | The unique number automatically assigned by the EMS agency for each patient care report (PCR). This is a unique number to the EMS agency for all of time. | <i>Default:</i> NEMESIS Reference: { E01_01 Patient Care Report Number } |
| eMDPerformed Ind BL Private | Indication of whether EMD was performed for this EMS event. | <i>Default:</i> NEMESIS Reference: { E03_02 EMD Performed } |

| Attribute | Notes | Constraints and tags |
|--|--|--|
| eMDCardID II Private [0..1] | The EMD card number reported by dispatch, consisting of the card number, dispatch level, and dispatch mode | <i>Default:</i> <u>NEMESIS Reference:</u> { E03_03 EMD Card Number } |
| dispatchLevelCode CD Private | | <i>Default:</i> <u>NEMESIS Reference:</u> { E03_03 EMD Card Number } |
| dispatchModeCode CD Private | | <i>Default:</i> <u>NEMESIS Reference:</u> { E03_03 EMD Card Number } |
| runReportNarrative ST Private | The narrative of the run report | <i>Default:</i> <u>NEMESIS Reference:</u> { E13_01 Run Report Narrative } |
| protocolsUsed ST Private Collection [0..*] | The protocol used by EMS personnel to direct the clinical care of the patient | <i>Default:</i> <u>NEMESIS Reference:</u> { E17_01 Protocols Used } |

E02_UnitAgencyInformation

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS SIM
Detail: Created on 6/29/2009. Last modified on 6/29/2009
GUID: {89F550EC-1118-4a04-988B-CBC20AA27444}

E02_UnitAgencyInformation - (Logical diagram)

Created By: Salimah Shakir on 6/29/2009
 Last Modified: 7/14/2009
 Version: 1.0. Locked: False
 GUID: {7F75B4D8-3EF6-4f7d-BFCD-B1781725C878}

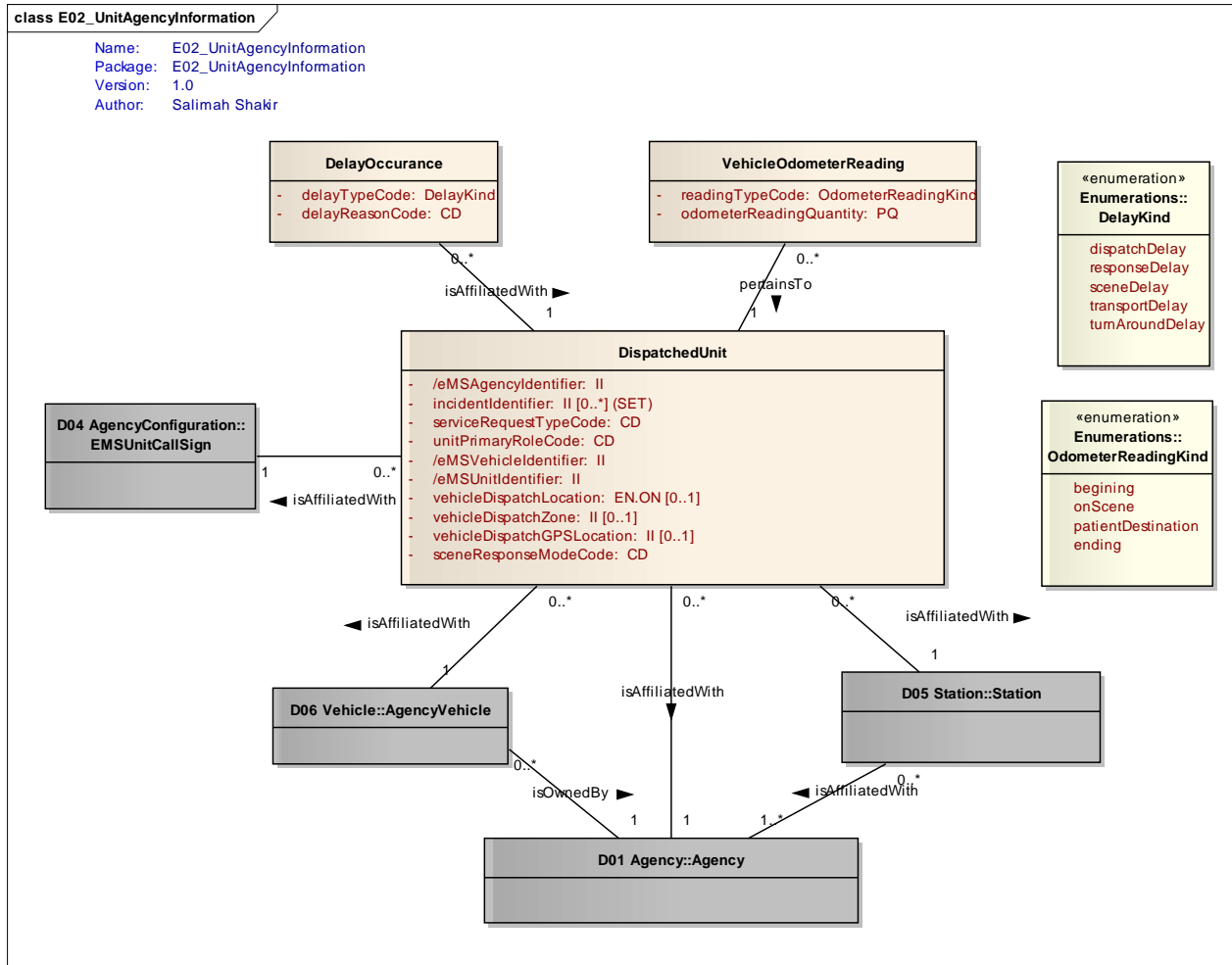


Figure: 30

DelayOccurance

Type: **Class**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: E02_UnitAgencyInformation **Keywords:**
 Detail: Created on 6/29/2009. Last modified on 6/29/2009.
 GUID: {118C9230-FD7B-46d2-8715-2E855E0C2F23}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|--------------------------|--------------------------|---|
| Association isAffiliatedWith Unspecified | Public DelayOccurance | Public DispatchedUnit | Each DelayOccurance always isAffiliatedWith one DispatchedUnit. Each DispatchedUnit sometimes isAffiliatedWith one or more DelayOccurance. |

Attributes

| Attribute | Notes | Constraints and tags |
|--|-------|---|
| delayTypeCode DelayKind Private | | <i>Default:</i> |
| delayReasonCode CD Private | | <i>Default:</i> <u>NEMESIS Reference:</u> { E02_06 Type of Dispatch Delay } <u>NEMESIS Reference:</u> { E02_07 Type of Response Delay } <u>NEMESIS Reference:</u> { E02_08 Type of Scene Delay } <u>NEMESIS Reference:</u> { E02_10 Type of Turn-Around Delay } <u>NEMESIS Reference:</u> { E02_09 Type of Transport Delay } |

DispatchedUnit

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: E02_UnitAgencyInformation *Keywords:*
Detail: Created on 6/29/2009. Last modified on 7/1/2009.
GUID: {7673D942-67B8-448e-85F5-12D75FFA0591 }

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|----------------------------------|---------------------------|---|
| Association isAffiliatedWith Unspecified | Public DispatchedUnit | Public Agency | Each DispatchedUnit always isAffiliatedWith one Agency. Each Agency sometimes isAffiliatedWith one or more DispatchedUnit. |
| Association isAffiliatedWith Unspecified | Public DispatchedUnit | Public EMSUnitCallSign | Each DispatchedUnit always isAffiliatedWith one EMSUnitCallSign. Each EMSUnitCallSign sometimes isAffiliatedWith one or more DispatchedUnit. |
| Association isAffiliatedWith Unspecified | Public DelayOccurance | Public DispatchedUnit | Each DelayOccurance always isAffiliatedWith one DispatchedUnit. Each DispatchedUnit sometimes isAffiliatedWith one or more DelayOccurance. |
| Association pertainsTo Unspecified | Public VehicleOdometerReading | Public DispatchedUnit | Each VehicleOdometerReading always pertainsTo one DispatchedUnit. Each DispatchedUnit sometimes isTheSourceOf one or more VehicleOdometerReading. |
| Association isAffiliatedWith Unspecified | Public DispatchedUnit | Public AgencyVehicle | Each DispatchedUnit always isAffiliatedWith one AgencyVehicle. Each AgencyVehicle sometimes isAffiliatedWith one or more DispatchedUnit. |
| Association isAffiliatedWith Unspecified | Public DispatchedUnit | Public Station | Each DispatchedUnit always isAffiliatedWith one Station. Each Station sometimes isAffiliatedWith one or more DispatchedUnit. |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|---|
| eMSAgencyIdentifier II Private | The state-assigned provider number of the responding agency | <i>Default:</i> NEMESIS Reference: { E02_01 EMS Agency Number } |

| Attribute | Notes | Constraints and tags |
|---|---|--|
| incidentIdentifier II Private Collection [0..*] | The incident number assigned by the 911 Dispatch System | <i>Default:</i> <u>NEMESIS Reference:</u> { E02_02 Incident Number } <u>NEMESIS Reference:</u> { E02_03 EMS Unit (Vehicle) Response Number } |
| serviceRequestTypeCode CD Private | The type of service or category of service requested of the EMS service responding for this specific EMS incident. | <i>Default:</i> <u>NEMESIS Reference:</u> { E02_04 Type of Service Requested } |
| unitPrimaryRoleCode CD Private | The primary role of the EMS service which was requested for this specific EMS incident. | <i>Default:</i> <u>NEMESIS Reference:</u> { E02_05 Primary Role of the Unit } |
| eMSVehicleIdentifier II Private | The unique physical vehicle number of the responding unit | <i>Default:</i> <u>NEMESIS Reference:</u> { E02_11 EMS Unit/Vehicle Number } |
| eMSUnitIdentifier II Private | The EMS unit number used to dispatch and communicate with the unit. This may be the same as the EMS Unit/Vehicle Number in many agencies. | <i>Default:</i> <u>NEMESIS Reference:</u> { E02_12 EMS Unit Call Sign (Radio Number) } |
| vehicleDispatchLocation EN.ON Private [0..1] | The station (or hospital) name representing the geographic location of the vehicle at the time of dispatch | <i>Default:</i> <u>NEMESIS Reference:</u> { E02_13 Vehicle Dispatch Location } |

| Attribute | Notes | Constraints and tags |
|---|---|--|
| vehicleDispatchZone II Private [0..1] | Geographic zone representing the location of the responding vehicle at the time of dispatch. | <i>Default:</i> NEMESIS Reference: { E02_14 Vehicle Dispatch Zone } |
| vehicleDispatchGPSLocation II Private [0..1] | The GPS coordinates associated with the EMS unit at the time of dispatch. | <i>Default:</i> NEMESIS Reference: { E02_15 Vehicle Dispatch GPS Location } |
| sceneResponseModeCode CD Private | Indication whether or not lights and/or sirens were used on the vehicle on the way to the scene | <i>Default:</i> NEMESIS Reference: { E02_20 Response Mode to Scene } |

VehicleOdometerReading

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: E02_UnitAgencyInformation *Keywords:*
Detail: Created on 6/29/2009. Last modified on 6/29/2009.
GUID: {8742BC36-6E98-4f46-A37B-2AA1B234CA3C}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|----------------------------------|--------------------------|---|
| Association pertainsTo Unspecified | Public VehicleOdometerReading | Public DispatchedUnit | Each VehicleOdometerReading always pertainsTo one DispatchedUnit. Each DispatchedUnit sometimes isTheSourceOf one or more VehicleOdometerReading. |

Attributes

| Attribute | Notes | Constraints and tags |
|---|-------|--|
| <p>readingTypeCode OdometerReadingKind Private</p> | | <p><i>Default:</i></p> |
| <p>odometerReadingQuantity PQ Private</p> | | <p><i>Default:</i> <u>NEMESIS Reference:</u> { E02_16 Begining Odometer Reading of Responding Vehicle } <u>NEMESIS Reference:</u> { E02_17 On- Scene Odometer Reading of Responding Vehicle } <u>NEMESIS Reference:</u> { E02_18 Patient Destination Odometer Reading of Responding Vehicle } <u>NEMESIS Reference:</u> { E02_19 Ending Odometer Reading of Responding Vehicle }</p> |

E04_RespondingEMSCrew

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS SIM
Detail: Created on 7/14/2009. Last modified on 7/14/2009
GUID: {5E8EA434-E4F2-4136-B38B-A11C3E439F85}

RespondingEMSCrew - (Logical diagram)

Created By: Salimah Shakir on 7/14/2009
Last Modified: 7/14/2009
Version: 1.0. *Locked:* False
GUID: {32DE016C-B3D7-4fe5-99D7-315171C90952}

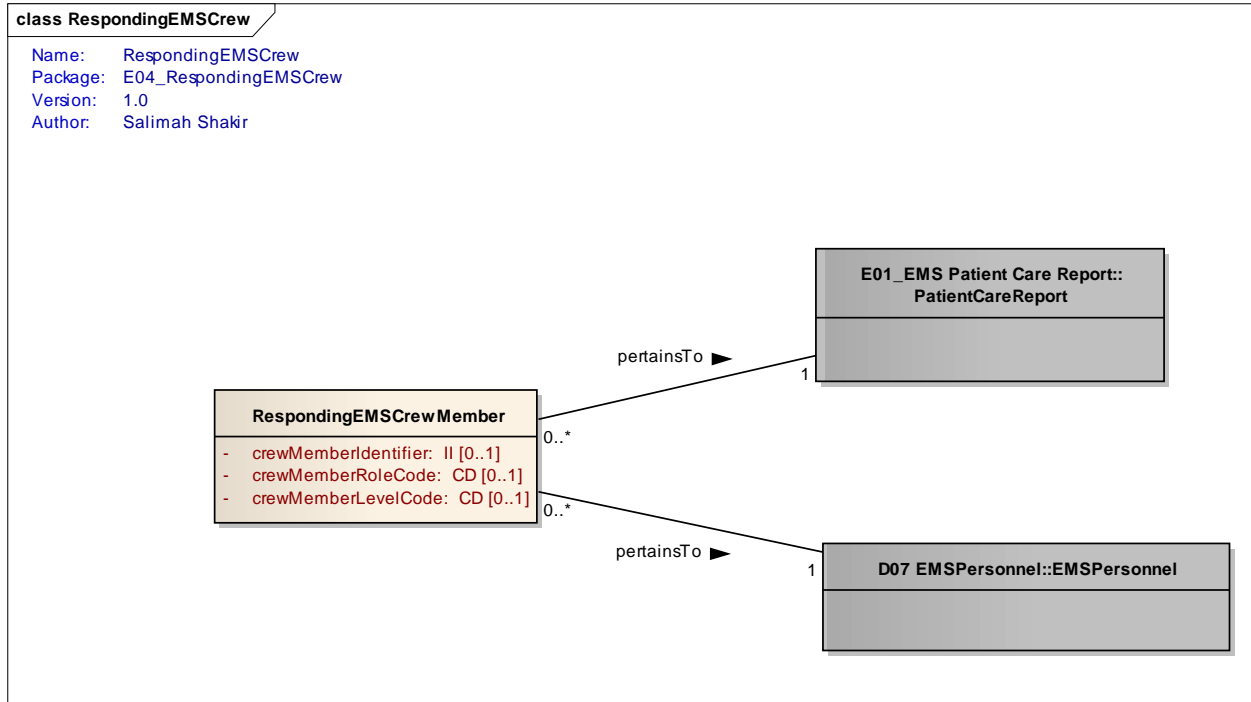


Figure: 31

RespondingEMSCrewMember

Type: Class
Status: Proposed. Version 1.0. Phase 1.0.
Package: E04_RespondingEMSCrew *Keywords:*
Detail: Created on 7/14/2009. Last modified on 7/14/2009.
GUID: {B0413AF3-86A4-4f6a-AC42-550E60DD2F3E}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|---------------------------------|--------------------------|---|
| <u>Association</u> pertainsTo Unspecified | Public RespondingEMSCrew Member | Public PatientCareReport | Each RespondingEMSCrewMember always pertainsTo one PatientCareReport. Each PatientCareReport sometimes isTheSubjectOf one or more RespondingEMSCrewMember . |
| <u>Association</u> pertainsTo Unspecified | Public RespondingEMSCrew Member | Public EMSPersonnel | Each RespondingEMSCrewMember always pertainsTo one |

| Connector | Source | Target | Notes |
|-----------|--------|--------|--|
| | | | EMSPersonel. Each EMSPersonel sometimes isTheSubjectOf one or more RespondingEMSCrewMember. |

Attributes

| Attribute | Notes | Constraints and tags |
|---|---|---|
| crewMemberIdentifier II Private [0..1] | The State Certification/Licensure ID number assigned to the crew member | <i>Default:</i> <u>NEMESIS Reference:</u> { E04_01 Crew Memeber ID } |
| crewMemberRoleCode CD Private [0..1] | The role of the crew member during transport of this call. | <i>Default:</i> <u>NEMESIS Reference:</u> { E04_02 Crew Member Role } |
| crewMemberLevelCode CD Private [0..1] | The functioning level of the crew member during this EMS patient encounter. | <i>Default:</i> <u>NEMESIS Reference:</u> { E04_03 Crew Member Level } |

E05_ResponseTime

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS SIM
Detail: Created on 7/14/2009. Last modified on 7/14/2009
GUID: {C2B5DDC9-4B0D-49fe-AED1-F14F6C15DE07}

ResponseTime - (Logical diagram)

Created By: Salimah Shakir on 7/14/2009
Last Modified: 7/14/2009
Version: 1.0. *Locked:* False
GUID: {0B3038B6-49FF-40d1-9238-E0A6049362A6}

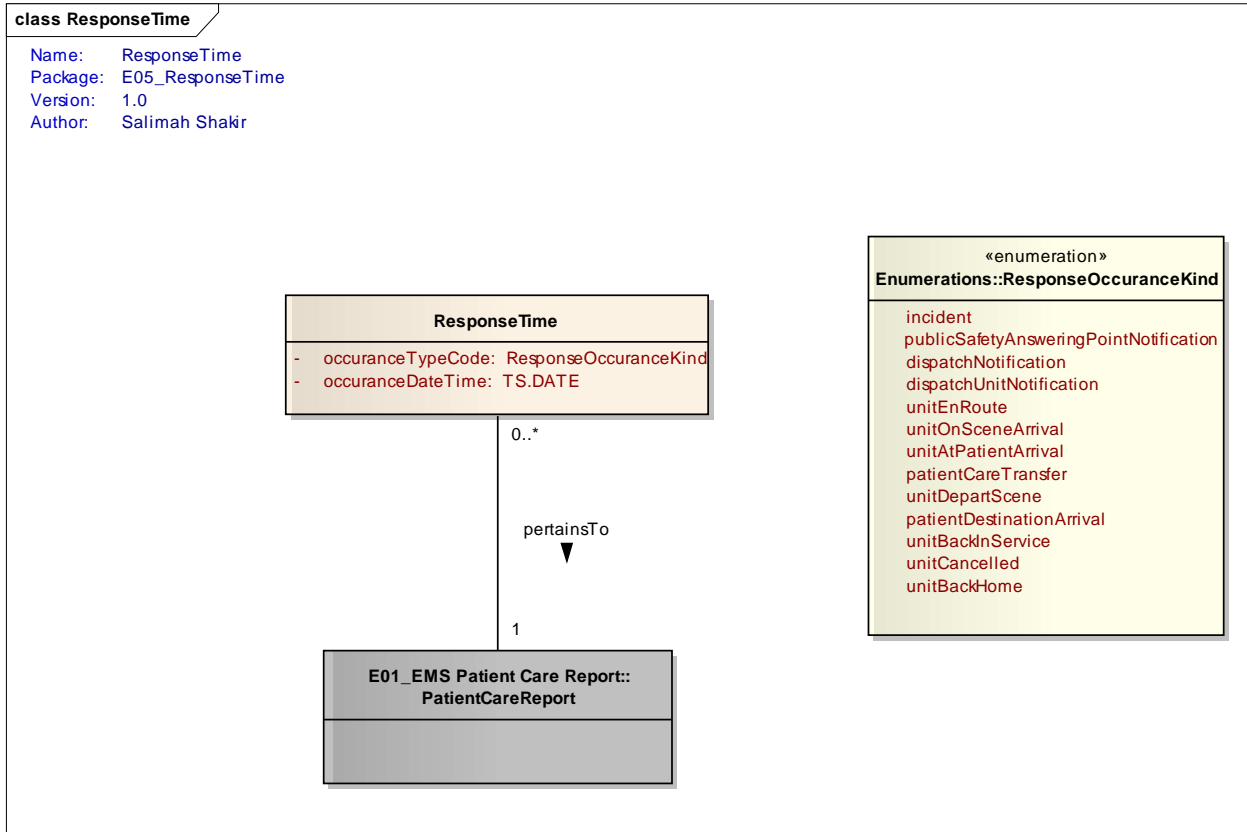


Figure: 32

ResponseTime

Type: Class
Status: Proposed. Version 1.0. Phase 1.0.
Package: E05_ResponseTime **Keywords:**
Detail: Created on 7/14/2009. Last modified on 7/14/2009.
GUID: {DC8D26E5-EC9A-4211-B63D-DA81E00C07A5}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|------------------------|-----------------------------|--|
| <u>Association</u> pertainsTo Unspecified | Public ResponseTime | Public PatientCareReport | Each ResponseTime always pertainsTo one PatientCareReport. Each PatientCareReport sometimes isTheSubjectOf one or more ResponseTime. |

Attributes

| Attribute | Notes | Constraints and tags |
|--|-------|---|
| <p>occurrenceTypeCode ResponseOccuranceKind Private</p> | | <p><i>Default:</i></p> |
| <p>occurrenceDateTime TS.DATE Private</p> | | <p><i>Default:</i> <u>NEMESIS Reference:</u> { E05_01 Incident or Onset Date/Time } <u>NEMESIS Reference:</u> { E05_02 PSAP Call Date/Time } <u>NEMESIS Reference:</u> { E05_03 Dispatch Notified Date/Time } <u>NEMESIS Reference:</u> { E05_04 Unit Notified by Dispatch Date/Time } <u>NEMESIS Reference:</u> { E05_05 Unit En Route Date/Time } <u>NEMESIS Reference:</u> { E05_06 Unit Arrived On Scene Date/Time } <u>NEMESIS Reference:</u> { E05_07 Arrived At Patient Date/Time } <u>NEMESIS Reference:</u> { E05_08 Transfer of Patient Care Date/Time } <u>NEMESIS Reference:</u> { E05_09 Unit Left Scene Date/Time } <u>NEMESIS Reference:</u> { E05_10 Patient Arrived at Destination Date/Time } <u>NEMESIS Reference:</u> { E05_11 Unit Back in Service Date/Time } <u>NEMESIS Reference:</u> { E05_12 Unit Cancelled Date/Time } <u>NEMESIS Reference:</u> { E05_13 Unit Back Home Location Date/Time }</p> |

E06 Patient

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS SIM
Detail: Created on 5/16/2009. Last modified on 6/16/2009
GUID: {12768EFB-506C-4c6c-9F94-77FA5D061651}

Patient - (Logical diagram)

Created By: Salimah Shakir on 5/16/2009
 Last Modified: 7/14/2009
 Version: 1.0. Locked: False
 GUID: {137CCA4B-3CC3-4347-AF56-564EB794CBFD}

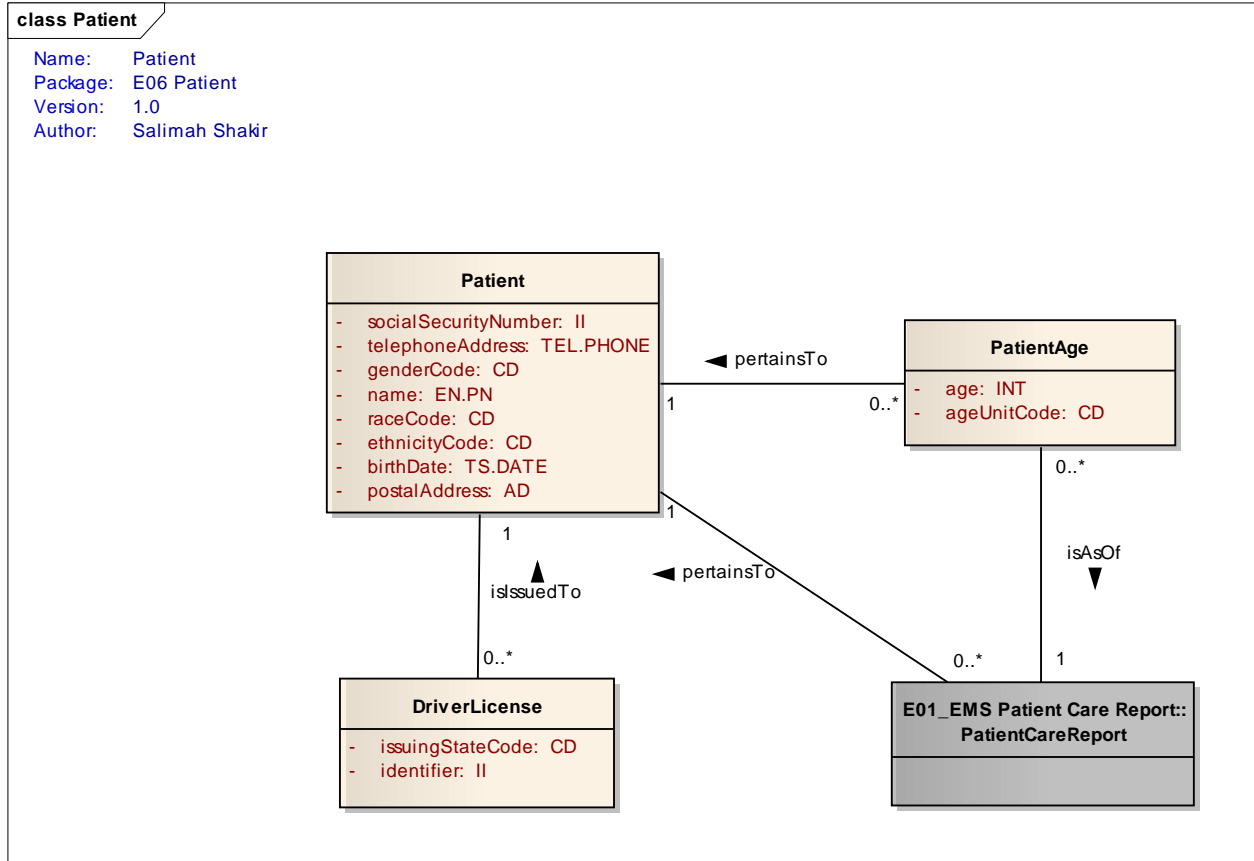


Figure: 33

DriverLicense

Type: **Class**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: E06 Patient *Keywords:*
 Detail: Created on 4/23/2009. Last modified on 6/3/2009.
 GUID: {11A8D635-AA99-4b50-A1A5-7A8ABA9DB254}

a license issued under governmental authority that permits the holder to operate a motor vehicle

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|-------------------------|-------------------|---|
| Association isIssuedTo Unspecified | Public DriverLicense | Public Patient | Each DriverLicense always isIssuedTo one Patient. Each Patient sometimes issues one or more DriverLicense. |

Attributes

| Attribute | Notes | Constraints and tags |
|---------------------------------------|--|---|
| issuingStateCode CD Private | The state that issued the driver's license | <i>Default:</i> <u>NEMESIS Reference:</u> { E06_18 State Issuing Driver's Liscense } |
| identifier II Private | The patient's driver's license number | <i>Default:</i> <u>NEMESIS Reference:</u> { E06_19 Driver's Liscense Number } |

Patient

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: E06 Patient *Keywords:*
Detail: Created on 4/23/2009. Last modified on 6/3/2009.
GUID: {BE4CE90F-0E07-4002-9EB3-A2F32E45DB47}

an individual awaiting or under medical care and treatment or the recipient of any of various personal services

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|-------------------------|-------------------|---|
| Association isIssuedTo Unspecified | Public DriverLicense | Public Patient | Each DriverLicense always isIssuedTo one Patient. Each Patient sometimes issues one or more DriverLicense. |
| Association pertainsTo Unspecified | Public PatientAge | Public Patient | Each PatientAge always pertains to one Patient. |

| Connector | Source | Target | Notes |
|---|--------------------------|----------------|--|
| | | | Each Patient sometimes is the subject of one or more PatientAge. |
| Association pertainsTo Unspecified | Public PatientCareReport | Public Patient | Each PatientCareReport always pertains to one Patient. Each Patient sometimes is the subject of one or more PatientCareReport. |

Attributes

| Attribute | Notes | Constraints and tags |
|---|--|--|
| socialSecurityNumber II Private | The nine-digit number issued to U.S. citizens, permanent residents, and temporary (working) residents | <i>Default:</i> <u>NEMESIS Reference:</u> { E06_10 Patient's Social Security Number } |
| telephoneAddress TEL.PHONE Private | a number assigned to a telephone line for a specific location that is used to call that location | <i>Default:</i> <u>NEMESIS Reference:</u> { E06_17 Primary or Home Telephone Number } |
| genderCode CD Private | either of the two major forms of individuals that are distinguished respectively as female or male especially on the basis of their reproductive organs and structures | <i>Default:</i> <u>NEMESIS Reference:</u> { E06_11 Gender } |
| name EN.PN Private | a word or phrase that constitutes the distinctive designation of a person or thing | <i>Default:</i> <u>NEMESIS Reference:</u> { E06_01 Last Name } <u>NEMESIS Reference:</u> { E06_02 First Name } <u>NEMESIS Reference:</u> { E06_03 Middle Name } |

| Attribute | Notes | Constraints and tags |
|-------------------------------------|--|--|
| raceCode CD Private | a class or kind of people unified by shared interests, habits, or characteristics | <i>Default:</i> <u>NEMESIS Reference:</u> { E06_12 Race } |
| ethnicityCode CD Private | of or relating to large groups of people classed according to common racial, national, tribal, religious, linguistic, or cultural origin or background | <i>Default:</i> <u>NEMESIS Reference:</u> { E06_13 Ethnicity } |
| birthDate TS.DATE Private | The date, month, and year of birth | <i>Default:</i> <u>NEMESIS Reference:</u> { E06_16 Date of Birth } |
| postalAddress AD Private | the identifiieg mailing location for a particular organization. includes street, city, state, and postal code | <i>Default:</i> <u>NEMESIS Reference:</u> { E06_04 Patient's Home Address } <u>NEMESIS Reference:</u> { E06_05 Patient's Home City } <u>NEMESIS Reference:</u> { E06_06 Patient's Home County } <u>NEMESIS Reference:</u> { E06_07 Patient's Home State } <u>NEMESIS Reference:</u> { E06_08 Patient's Home Zip Code } <u>NEMESIS Reference:</u> { E06_09 Patient's Home Country } |

PatientAge

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: E06 Patient *Keywords:*
Detail: Created on 4/23/2009. Last modified on 6/3/2009.
GUID: {8984A1BA-7887-4999-B9B2-BDBA42EC11B9}

the time of life at which some particular qualification, power, or capacity arises or rests

Custom Properties

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|-------------------|--------------------------|--|
| Association pertainsTo Unspecified | Public PatientAge | Public Patient | Each PatientAge always pertains to one Patient. Each Patient sometimes is the subject of one or more PatientAge. |
| Association isAsOf Unspecified | Public PatientAge | Public PatientCareReport | Each PatientAge always isAsOf one PatientCareReport. Each PatientCareReport sometimes isReferencePointFor one or more PatientAge. |

Attributes

| Attribute | Notes | Constraints and tags |
|-------------------------------|---|---|
| age INT Private | the time of life at which some particular qualification, power, or capacity arises or rests | <i>Default:</i> <u>NEMESIS Reference:</u> { E06_14 Age } |
| ageUnitCode CD Private | The units which the age is documented in (Hours, Days, Months, Years) | <i>Default:</i> <u>NEMESIS Reference:</u> { E06_15 Age Units } |

E07_Billing

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS SIM
Detail: Created on 7/28/2009. Last modified on 7/28/2009
GUID: {39C80DBA-FFBE-49d8-9592-9033B8C32C76}

E07_Billing - (Logical diagram)

Created By: AbdulMalik Shakir on 7/28/2009
Last Modified: 7/28/2009

Version: 1.0. Locked: False
 GUID: {BEBB14F0-FD65-4750-8878-0BC93ABFABD5}

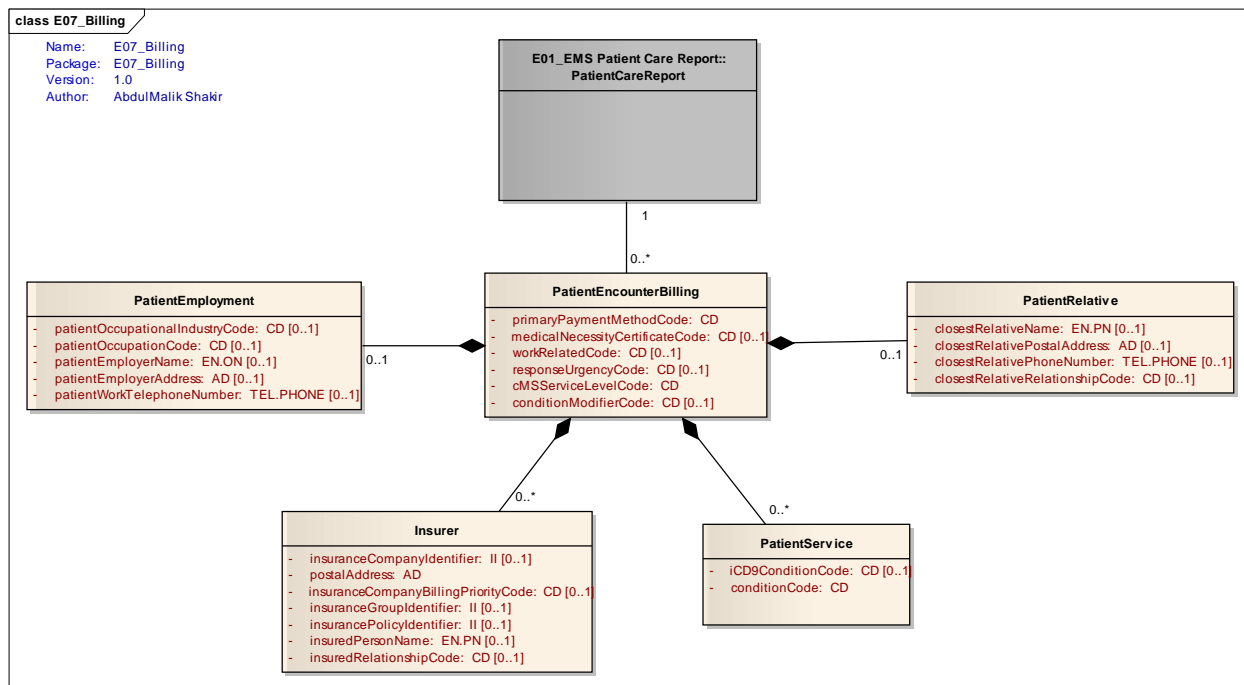


Figure: 34

Insurer

Type: **Class**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: E07_Billing *Keywords:*
 Detail: Created on 7/28/2009. Last modified on 7/28/2009.
 GUID: {FB9AEB17-AC47-446c-A429-6E04AA02F5E4}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|-------------------|-----------------------------------|-------|
| Aggregation Source -> Destination | Public Insurer | Public PatientEncounterBilling | |

Attributes

| Attribute | Notes | Constraints and tags |
|-----------|-------|----------------------|
|-----------|-------|----------------------|

| Attribute | Notes | Constraints and tags |
|--|--|---|
| insuranceCompanyIdentifier II Private [0..1] | The ID number of the patient's insurance company | <i>Default:</i> <u>NEMESIS Reference:</u> { E07_03 Insurance Company ID/Name } |
| postalAddress AD Private | The mailing address. | <i>Default:</i> <u>NEMESIS Reference:</u> { E07_05 Insurance Company Address } <u>NEMESIS Reference:</u> { E07_06 Insurance Company City } <u>NEMESIS Reference:</u> { E07_07 Insurance Company State } <u>NEMESIS Reference:</u> { E07_08 Insurance Company Zip Code } |
| insuranceCompanyBillingPriorityCode CD Private [0..1] | The billing priority or order for the insurance company. | <i>Default:</i> <u>NEMESIS Reference:</u> { E07_04 Insurance Company Billing Priority } |
| insuranceGroupIdentifier II Private [0..1] | The ID number or name of the patient's insurance group | <i>Default:</i> <u>NEMESIS Reference:</u> { E07_09 Insurance Group ID/ Name } |
| insurancePolicyIdentifier II Private [0..1] | The ID number of the patient's insurance policy | <i>Default:</i> <u>NEMESIS Reference:</u> { E07_10 Insurance Policy ID Number } |
| insuredPersonName EN.PN Private [0..1] | person's name | <i>Default:</i> <u>NEMESIS Reference:</u> { E07_11 Last Name of the Insured } <u>NEMESIS Reference:</u> { E07_12 First Name of the Insured } <u>NEMESIS Reference:</u> { E07_13 Middle Initial/ Name of the Insured } |

| Attribute | Notes | Constraints and tags |
|---|---|--|
| insuredRelationshipCode CD Private [0..1] | The relationship of the patient to the primary insured person | <i>Default:</i> NEMESIS Reference: { E07_14 Relationship to the Insured } |

PatientEmployment

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: E07_Billing *Keywords:*
Detail: Created on 7/28/2009. Last modified on 7/28/2009.
GUID: {C712E154-D3EF-4bfb-A1E3-F85C131C2C10}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|-----------------------------|-----------------------------------|-------|
| Aggregation Source -> Destination | Public PatientEmployment | Public PatientEncounterBilling | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|--|
| patientOccupationalIndustryCode CD Private [0..1] | The occupational industry of the patient's work | <i>Default:</i> NEMESIS Reference: { E07_16 Patient's Occupational Industry } |
| patientOccupationCode CD Private [0..1] | The occupation of the patient | <i>Default:</i> NEMESIS Reference: { E07_17 Patient's Occupation } |

| Attribute | Notes | Constraints and tags |
|---|--|---|
| patientEmployerName EN.ON Private [0..1] | The name of the patient's employer | <i>Default:</i> NEMESIS Reference: { E07_27 Patient's Employer } |
| patientEmployerAddress AD Private [0..1] | The street address of the patient's employer | <i>Default:</i> NEMESIS Reference: { E07_28 Patient's Employer's Address } NEMESIS Reference: { E07_29 Patient's Employer's City } NEMESIS Reference: { E07_30 Patient's Employer's State } NEMESIS Reference: { E07_31 Patient's Employer's Zip Code } |
| patientWorkTelephoneN umber TEL.PHONE Private [0..1] | The patient's work telephone number | <i>Default:</i> NEMESIS Reference: { E07_32 Patient's Work Telephone Number } |

PatientEncounterBilling

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: E07_Billing *Keywords:*
Detail: Created on 7/28/2009. Last modified on 7/28/2009.
GUID: {578C56CC-354B-4063-B715-BD678BAC3866}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|-----------------------------------|-----------------------------------|-------|
| <u>Association</u> Unspecified | Public PatientEncounterBilling | Public PatientCareReport | |
| <u>Aggregation</u> Source -> Destination | Public PatientEmployment | Public PatientEncounterBilling | |

| Connector | Source | Target | Notes |
|---|---------------------------|-----------------------------------|-------|
| Aggregation Source -> Destination | Public PatientRelative | Public PatientEncounterBilling | |
| Aggregation Source -> Destination | Public Insurer | Public PatientEncounterBilling | |
| Aggregation Source -> Destination | Public PatientService | Public PatientEncounterBilling | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|--|
| primaryPaymentMethodCode CD Private | The primary method of payment or type of insurance associated with this EMS encounter | <i>Default:</i> <u>NEMESIS Reference:</u> { E07_01 Primary Method of Payment } |
| medicalNecessityCertificateCode CD Private [0..1] | Indication of whether a certificate of medical necessity is present | <i>Default:</i> <u>NEMESIS Reference:</u> { E07_02 Certificate of Medical Necessity } |
| workRelatedCode CD Private [0..1] | Indication of whether or not the injury is work related. | <i>Default:</i> <u>NEMESIS Reference:</u> { E07_15 Work-Related } |
| responseUrgencyCode CD Private [0..1] | The urgency in which the EMS agency began to mobilize resources. | <i>Default:</i> <u>NEMESIS Reference:</u> { E07_33 Response Urgency } |
| cMSServiceLevelCode CD Private | The CMS service level for this EMS encounter. | <i>Default:</i> <u>NEMESIS Reference:</u> { E07_34 CMS Service Level } |

| Attribute | Notes | Constraints and tags |
|---|---|--|
| conditionModifierCode CD Private [0..1] | The CMS Condition Code Modifier is used to better describe the EMS ground or air medical services response and service delivery. Please consult CMS documentation for detailed descriptions of these modifiers and their use. | <i>Default:</i> NEMESIS Reference: { E07_37 Condition Code Modifier } |

PatientRelative

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: E07_Billing *Keywords:*
Detail: Created on 7/28/2009. Last modified on 7/28/2009.
GUID: {69FEB160-1F93-423f-A76D-AB9B366A4F82}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|---------------------------|-----------------------------------|-------|
| <u>Aggregation</u> Source -> Destination | Public PatientRelative | Public PatientEncounterBilling | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|-------|--|
| closestRelativeName EN.PN Private [0..1] | | <i>Default:</i> NEMESIS Reference: { E07_18 Closest Relative/ Guardian Last Name } NEMESIS Reference: { E07_19 First Name of the Closest Relative/ Guardian } NEMESIS Reference: { E07_20 Middle Initial/Name of the Closest Relative/ Guardian } |

| Attribute | Notes | Constraints and tags |
|--|--|--|
| closestRelativePostalAddress AD Private [0..1] | | <i>Default:</i> NEMESIS Reference: { E07_21 Closest Relative/ Guardian Street Address } NEMESIS Reference: { E07_22 Closest Relative/ Guardian City } NEMESIS Reference: { E07_23 Closest Relative/ Guardian State } NEMESIS Reference: { E07_24 Closest Relative/ Guardian Zip Code } |
| closestRelativePhoneNumber TEL.PHONE Private [0..1] | The home or other phone number of the patient's closest relative or guardian | <i>Default:</i> NEMESIS Reference: { E07_25 Closest Relative/ Guardian Phone Number } |
| closestRelativeRelationshipCode CD Private [0..1] | The relationship of the patient's closest relative or guardian | <i>Default:</i> NEMESIS Reference: { E07_26 Closest Relative/ Guardian Relationship } |

PatientService

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: E07_Billing *Keywords:*
Detail: Created on 7/28/2009. Last modified on 7/28/2009.
GUID: {A84F29DC-6DD4-48ca-BB6D-589A2612E6A3}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|--------------------------|-----------------------------------|-------|
| Aggregation Source -> Destination | Public PatientService | Public PatientEncounterBilling | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|--|
| iCD9ConditionCode CD Private [0..1] | The ICD-9 Code assigned by CMS for the condition code documented in E7.35. Please consult CMS documentation for detailed descriptions of the Condition Codes and their use. | <i>Default:</i> <u>NEMESIS Reference:</u> { E07_36 ICD-9 Code for the Condition Code Number } |
| conditionCode CD Private | The condition codes are used to better describe the service and patient care delivery by an EMS service. Please consult CMS documentation for detailed descriptions of these condition codes and their use. | <i>Default:</i> <u>NEMESIS Reference:</u> { E07_35 Condition Code Number } |

E08_Scene

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS SIM
Detail: Created on 7/28/2009. Last modified on 7/28/2009
GUID: {3DD9B407-6594-4f2f-8E34-CE9FF70333BC}

E08_Scene - (Logical diagram)

Created By: AbdulMalik Shakir on 7/28/2009
Last Modified: 7/28/2009
Version: 1.0. *Locked:* False
GUID: {97AE1F75-11E6-409f-969F-646ED5928F6B}

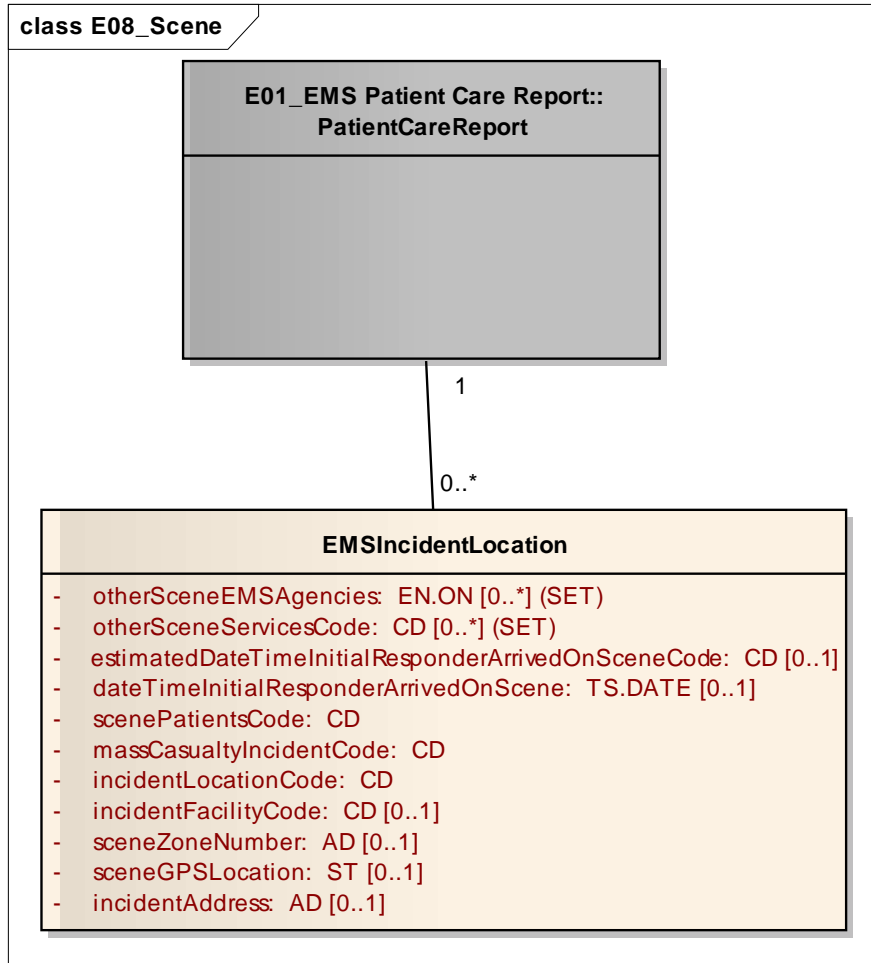


Figure: 35

EMSIncidentLocation

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: E08_Scene *Keywords:*
Detail: Created on 7/28/2009. Last modified on 7/28/2009.
GUID: {CC136AB5-7725-4cf8-867E-F2BA7501C6EA}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|-----------------------------------|-------------------------------|-----------------------------|-------|
| <u>Association</u> Unspecified | Public EMSIncidentLocation | Public PatientCareReport | |

| Connector | Source | Target | Notes |
|-----------|--------|--------|-------|
| | | | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|---|
| otherSceneEMSAgencies EN.ON Private Collection [0..*] | Other EMS agencies that were at the scene, if any | <i>Default:</i> NEMESIS Reference: { E08_01 Other EMS Agencies at Scene } |
| otherSceneServicesCode CD Private Collection [0..*] | Other services that were at the scene, if any | <i>Default:</i> NEMESIS Reference: { E08_02 Other Services at Scene } |
| estimatedDateInitial ResponderArrivedOnSceneCode CD Private [0..1] | The date/time differential between the initial responder and the EMS unit arriving on the scene, if applicable. | <i>Default:</i> NEMESIS Reference: { E08_03 Estimated Date/Time Initial Responder Arrived on Scene } |
| dateTimeInitialResponderArrivedOnScene TS.DATE Private [0..1] | The time that the initial responder arrived on the scene, if applicable. | <i>Default:</i> NEMESIS Reference: { E08_04 Date/ Time Initial Responder Arrived on Scene } |
| scenePatientsCode CD Private | Indicator of how many total patients were at the scene | <i>Default:</i> NEMESIS Reference: { E08_05 Number of Patients at Scene } |

| Attribute | Notes | Constraints and tags |
|---|---|---|
| massCasualtyIncidentCode CD Private | Indicator if this event would be considered a mass casualty incident (overwhelmed existing EMS resources) | <i>Default:</i> <u>NEMESIS Reference:</u> { E08_06 Mass Casualty Incident } |
| incidentLocationCode CD Private | The kind of location where the incident happened | <i>Default:</i> <u>NEMESIS Reference:</u> { E08_07 Incident Location Type } |
| incidentFacilityCode CD Private [0..1] | The state or regulatory number (code) associated with the facility if the Incident is a Healthcare Facility. | <i>Default:</i> <u>NEMESIS Reference:</u> { E08_08 Incident Facility Code } |
| sceneZoneNumber AD Private [0..1] | Geographic zone representing the location of the scene | <i>Default:</i> <u>NEMESIS Reference:</u> { E08_09 Scene Zone Number } |
| sceneGPSLocation ST Private [0..1] | The GPS coordinates associated with the Scene. | <i>Default:</i> <u>NEMESIS Reference:</u> { E08_10 Scene GPS Location } |
| incidentAddress AD Private [0..1] | The street address (or best approximation) where the patient was found, or, if no patient, the address to which the unit responded. | <i>Default:</i> <u>NEMESIS Reference:</u> { E08_11 Incident Address } <u>NEMESIS Reference:</u> { E08_12 Incident City } <u>NEMESIS Reference:</u> { E08_13 Incident County } <u>NEMESIS Reference:</u> { E08_14 Incident State } <u>NEMESIS Reference:</u> { E08_15 Incident Zip Code } |

E09_Situation

Type: **Package**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: EMS SIM
 Detail: Created on 7/28/2009. Last modified on 7/28/2009
 GUID: {608FD56C-450F-4500-8F9D-FD818E37758F}

E09_Situation - (Logical diagram)

Created By: AbdulMalik Shakir on 7/28/2009
 Last Modified: 7/28/2009
 Version: 1.0. Locked: False
 GUID: {17475607-F7D0-4f8d-A328-068678141315}

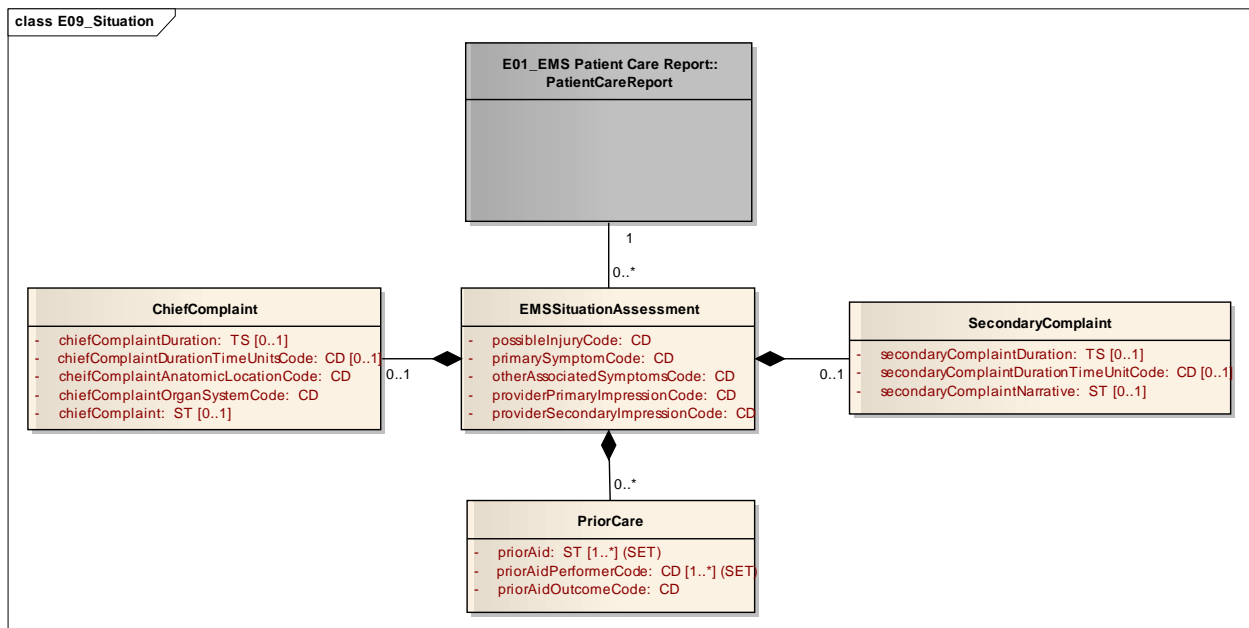


Figure: 36

ChiefComplaint

Type: **Class**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: E09_Situation *Keywords:*
 Detail: Created on 7/28/2009. Last modified on 7/28/2009.
 GUID: {EE6E88EE-2C36-4722-A614-FF808AB7FA87}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|--------------------------|----------------------------------|-------|
| Aggregation Source -> Destination | Public ChiefComplaint | Public EMSSituationAssessment | |

Attributes

| Attribute | Notes | Constraints and tags |
|---|--|---|
| chiefComplaintDuration TS Private [0..1] | The time duration of the chief complaint | <i>Default:</i> <u>NEMESIS Reference:</u> { E09_06 Duration of Chief Complaint } |
| chiefComplaintDuration TimeUnitsCode CD Private [0..1] | The time units of the duration of the patient's chief complaint | <i>Default:</i> <u>NEMESIS Reference:</u> { E09_07 Time Units of Duration of Chief Complaint } |
| chiefComplaintAnatomic LocationCode CD Private | The primary anatomic location of the chief complaint as identified by EMS personnel | <i>Default:</i> |
| chiefComplaintOrganSystemCode CD Private | The primary organ system of the patient injured or medically affected. This is to be completed by EMS personnel with a minimum of an EMT-Paramedic level of credentialing. | <i>Default:</i> <u>NEMESIS Reference:</u> { E09_12 Chief Complaint Organ System } |
| chiefComplaint ST Private [0..1] | The statement of the problem by the patient or the history provider in one or two words | <i>Default:</i> <u>NEMESIS Reference:</u> { E09_05 Chief Complaint } |

EMSSituationAssessment

Type: Class
Status: Proposed. Version 1.0. Phase 1.0.
Package: E09_Situation *Keywords:*
Detail: Created on 7/28/2009. Last modified on 7/28/2009.
GUID: {E4ED5817-0E0E-48b2-AB39-58F3A3FCF312}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|----------------------------------|----------------------------------|-------|
| <u>Aggregation</u> Source -> Destination | Public PriorCare | Public EMSSituationAssessment | |
| <u>Association</u> Unspecified | Public EMSSituationAssessment | Public PatientCareReport | |
| <u>Aggregation</u> Source -> Destination | Public SecondaryComplaint | Public EMSSituationAssessment | |
| <u>Aggregation</u> Source -> Destination | Public ChiefComplaint | Public EMSSituationAssessment | |

Attributes

| Attribute | Notes | Constraints and tags |
|---|---|---|
| possibleInjuryCode CD Private | Indicates that the reason for the EMS encounter was related to an injury or traumatic event. This data element provides documentation to classify the EMS Reason for Encounter as either injury or non-injury related based on mechanism and not on actual injury | <i>Default:</i> NEMESIS Reference: { E09_04 Possible Injury } |

| Attribute | Notes | Constraints and tags |
|--|--|--|
| primarySymptomCode CD Private | The primary sign and symptom present in the patient or observed by EMS personnel | <i>Default:</i> <u>NEMESIS Reference:</u> { E09_13 Primary Symptom } |
| otherAssociatedSymptomsCode CD Private | Other symptoms identified by the patient or observed by EMS personnel | <i>Default:</i> <u>NEMESIS Reference:</u> { E09_14 Other Associated Symptoms } |
| providerPrimaryImpressionCode CD Private | The EMS personnel's impression of the patient's primary problem or most significant condition which led to the management given to the patient (treatments, medications, or procedures). | <i>Default:</i> <u>NEMESIS Reference:</u> { E09_15 Providers Primary Impression } |
| providerSecondaryImpressionCode CD Private | The EMS personnel's impression of the patient's secondary problem or which led to the management given to the patient (treatments, medications, or procedures). | <i>Default:</i> <u>NEMESIS Reference:</u> { E09_16 Provider's Secondary Impression } |

PriorCare

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: E09_Situation *Keywords:*
Detail: Created on 7/28/2009. Last modified on 7/28/2009.
GUID: {7D387CE7-F7FD-4344-8BAA-7A8B67679012}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|-----------|--------|--------|-------|
|-----------|--------|--------|-------|

| Connector | Source | Target | Notes |
|---|---------------------|----------------------------------|-------|
| Aggregation Source -> Destination | Public PriorCare | Public EMSSituationAssessment | |

Attributes

| Attribute | Notes | Constraints and tags |
|---|--|--|
| priorAid ST Private Collection [1..*] | Any care which was provided to the patient prior to the arrival of this unit. | <i>Default:</i> <u>NEMESIS Reference:</u> { E09 Prior Aid } |
| priorAidPerformerCode CD Private Collection [1..*] | The type of individual who performed the care prior to the arrival of this unit. | <i>Default:</i> <u>NEMESIS Reference:</u> { E09_02 Prior Aid Performed By } |
| priorAidOutcomeCode CD Private | What was the outcome or result of the care performed prior to the arrival of the unit? | <i>Default:</i> <u>NEMESIS Reference:</u> { E09_03 Outcome of the Prior Aid } |

SecondaryComplaint

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: E09_Situation *Keywords:*
Detail: Created on 7/28/2009. Last modified on 7/28/2009.
GUID: {1A4BF4E3-6189-4672-9790-F3B1C0F4A998}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|-----------|--------|--------|-------|
|-----------|--------|--------|-------|

| Connector | Source | Target | Notes |
|---|------------------------------|----------------------------------|-------|
| Aggregation Source -> Destination | Public SecondaryComplaint | Public EMSSituationAssessment | |

Attributes

| Attribute | Notes | Constraints and tags |
|---|---|---|
| secondaryComplaintDuration TS Private [0..1] | The duration of the secondary complaint | <i>Default:</i> NEMESIS Reference: { E09_09 Duration of Secondary Complaint } |
| secondaryComplaintDurationTimeUnitCode CD Private [0..1] | The time units of the duration of the patient's secondary complaint | <i>Default:</i> NEMESIS Reference: { E09_10 Time Units of Duration of Secondary Complaint } |
| secondaryComplaintNarrative ST Private [0..1] | The narrative of the patient's secondary complaint | <i>Default:</i> NEMESIS Reference: { E09_08 Secondary Complaint Narrative } |

E10_SituationTrauma

Type: **Package**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: EMS SIM
 Detail: Created on 7/28/2009. Last modified on 7/28/2009
 GUID: {B080B367-60EC-4815-861C-B7FE9B92C9CB}

E10_SituationTrauma - (Logical diagram)

Created By: AbdulMalik Shakir on 7/28/2009
 Last Modified: 7/28/2009
 Version: 1.0. Locked: False
 GUID: {70912A89-5CDA-40b3-BCD0-55773AC35C79}

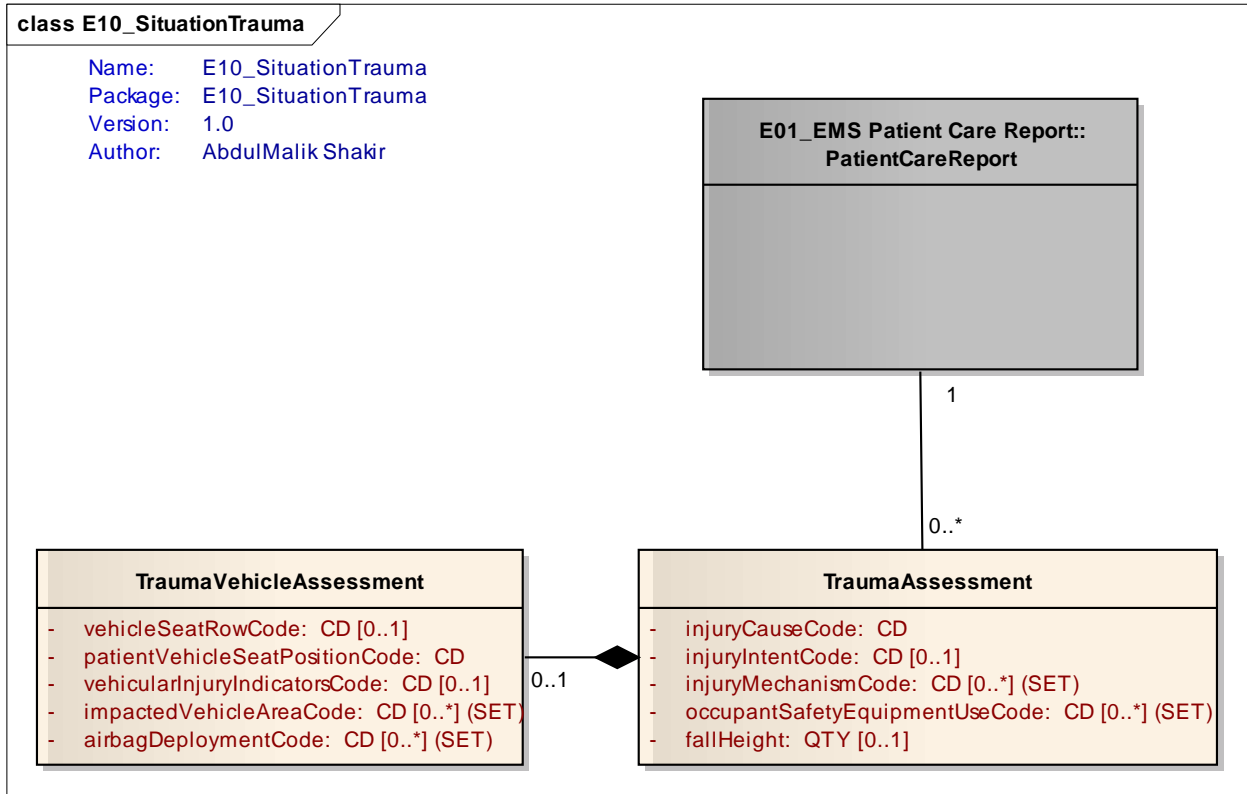


Figure: 37

TraumaAssessment

Type: Class
Status: Proposed. Version 1.0. Phase 1.0.
Package: E10_SituationTrauma *Keywords:*
Detail: Created on 7/28/2009. Last modified on 7/28/2009.
GUID: {F96EEB17-A218-41c3-B122-8011BDA4E864}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|---------------------------------------|-----------------------------|-------|
| Aggregation Source -> Destination | Public TraumaVehicleAssessm ent | Public TraumaAssessment | |
| Association Unspecified | Public TraumaAssessment | Public PatientCareReport | |

Attributes

| Attribute | Notes | Constraints and tags |
|---|---|--|
| injuryCauseCode CD Private | The category of the reported/suspected external cause of the injury | <i>Default:</i> <u>NEMESIS Reference:</u> { E10_01 Cause of Injury } |
| injuryIntentCode CD Private [0..1] | The intent of the individual inflicting the injury | <i>Default:</i> <u>NEMESIS Reference:</u> { E10_02 Intent of the Injury } |
| injuryMechanismCode CD Private Collection [0..*] | The mechanism of the event which caused the injury. | <i>Default:</i> <u>NEMESIS Reference:</u> { E10_03 Mechanism of Injury } |
| occupantSafetyEquipmentUseCode CD Private Collection [0..*] | Safety equipment in use by the patient at the time of the injury | <i>Default:</i> <u>NEMESIS Reference:</u> { E10_08 Use of Occupant Safety Equipment } |
| fallHeight QTY Private [0..1] | The distance in feet the patient fell, measured from the lowest point of the patient to the ground. | <i>Default:</i> <u>NEMESIS Reference:</u> { E10_10 Height of Fall } |

TraumaVehicleAssessment

Type: Class
Status: Proposed. Version 1.0. Phase 1.0.
Package: E10_SituationTrauma *Keywords:*
Detail: Created on 7/28/2009. Last modified on 7/28/2009.
GUID: {2B194C4A-50E1-4e08-A429-E8357ADC2620}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|---------------------------------------|----------------------------|-------|
| <u>Aggregation</u> Source -> Destination | Public TraumaVehicleAssessm ent | Public TraumaAssessment | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|--|
| vehicleSeatRowCode CD Private [0..1] | The seat row location of the patient in vehicle at the time of the crash with the front seat numbered as 1. | <i>Default:</i> <u>NEMESIS Reference:</u> { E10_06 Seat Row Location of Patient in Vehicle } |
| patientVehicleSeatPositionCode CD Private | The position of the patient in seat of the vehicle at the time of the crash | <i>Default:</i> |
| vehicularInjuryIndicator sCode CD Private [0..1] | The kind of risk factor predictors associated with the vehicle involved in the incident | <i>Default:</i> <u>NEMESIS Reference:</u> { E10_04 Vehicular Injury Indicators } |
| impactedVehicleAreaCode CD Private Collection [0..*] | The area or location of impact on the vehicle | <i>Default:</i> <u>NEMESIS Reference:</u> { E10_05 Area of the Vehicle Impacted by the Collision } |

| Attribute | Notes | Constraints and tags |
|--|---|--|
| airbagDeploymentCode CD Private Collection [0..*] | Indication of Airbag deployment during the motor vehicle crash. | <i>Default:</i> <u>NEMESIS Reference:</u> { E10_09 Airbag Deployment } |

E11_CPRSituation

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS SIM
Detail: Created on 7/28/2009. Last modified on 7/28/2009
GUID: {AB8DBA91-1FFB-42bc-843F-8B972BEB1F81}

E11_CPRSituation - (Logical diagram)

Created By: AbdulMalik Shakir on 7/28/2009
Last Modified: 7/28/2009
Version: 1.0. *Locked:* False
GUID: {B6FCC614-35D6-4a21-A63E-5119B250BE6B}

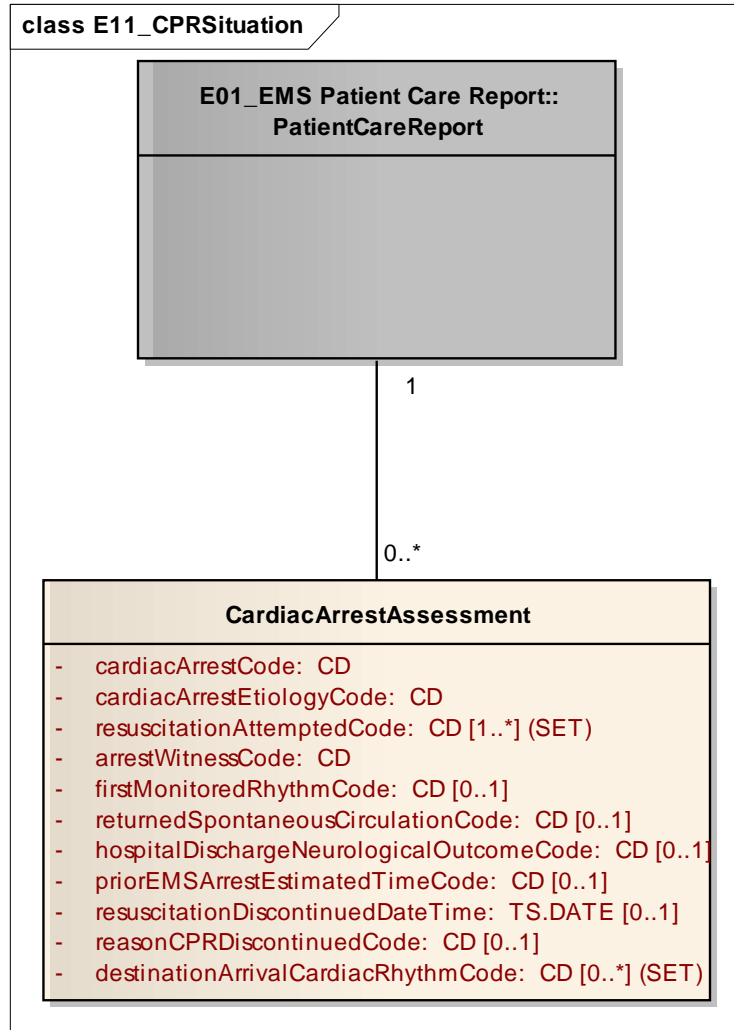


Figure: 38

CardiacArrestAssessment

Type: Class
Status: Proposed. Version 1.0. Phase 1.0.
Package: E11_CPRSituation *Keywords:*
Detail: Created on 7/28/2009. Last modified on 7/28/2009.
GUID: {42007B0B-D56B-4ff7-9179-4CD32F540074}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|-----------|--------|--------|-------|
|-----------|--------|--------|-------|

| Connector | Source | Target | Notes |
|-----------------------------------|---------------------------------------|-----------------------------|-------|
| Association Unspecified | Public CardiacArrestAssessme nt | Public PatientCareReport | |

Attributes

| Attribute | Notes | Constraints and tags |
|---|--|--|
| cardiacArrestCode CD Private | Indication of the presence of a cardiac arrest at any time associated with the EMS event. | <i>Default:</i> <u>NEMESIS Reference:</u> { E11_01 Cardiac Arrest } |
| cardiacArrestEtiologyCode CD Private | Indication of the etiology or cause of the cardiac arrest (classified as cardiac, non-cardiac, etc.) | <i>Default:</i> <u>NEMESIS Reference:</u> { E11_02 Cardiac Arrest Etiology } |
| resuscitationAttemptedCode CD Private Collection [1..*] | Indication of an attempt to resuscitate the patient who is in cardiac arrest (attempted, not attempted due to DNR, etc.) | <i>Default:</i> <u>NEMESIS Reference:</u> { E11_03 Resuscitation Attempted } |
| arrestWitnessCode CD Private | Indication of who the cardiac arrest was witnessed by | <i>Default:</i> <u>NEMESIS Reference:</u> { E11_04 Arrest Witnessed by } |
| firstMonitoredRhythmCode CD Private [0..1] | Documentation of what the first monitored rhythm which was noted | <i>Default:</i> <u>NEMESIS Reference:</u> { E11_05 First Monitored Rhythm of the Patient } |

| Attribute | Notes | Constraints and tags |
|---|---|---|
| returnedSpontaneousCirculationCode CD Private [0..1] | Indication whether or not there was any return of spontaneous circulation at any time during the EMS event. | <i>Default:</i> <u>NEMESIS Reference:</u> { E11_06 Any Return of Spontaneous Circulation } |
| hospitalDischargeNeurologicalOutcomeCode CD Private [0..1] | The level of cerebral performance of the patient at the time of discharge from the Hospital: ? 1 = Good Cerebral Performance: Conscious, Alert, able to work and lead a normal life ? 2 = Moderate Cerebral Disability: Conscious and able to function independently (dress, travel, prepare food) may have hemiplegia, seizures, or permanent memory or mental changes ? 3 = Severe Cerebral Disability: Conscious, dependent on others for daily support, functions only in an institution or at home with exceptional family effort ? 4 - Coma, vegetative state | <i>Default:</i> <u>NEMESIS Reference:</u> { E11_07 Neurological Outcome at Hospital Discharge } |
| priorEMSArrestEstimateTimeCode CD Private [0..1] | The length of time the patient was down (estimated) before the responding unit arrived at the patient | <i>Default:</i> <u>NEMESIS Reference:</u> { E11_08 Estimated Time of Arrest Prior to EMS Arrival } |
| resuscitationDiscontinuedDateTime TS.DATE Private [0..1] | The date/time the CPR was discontinued (or could be time of death) | <i>Default:</i> <u>NEMESIS Reference:</u> { E11_09 Date/Time Resuscitation Discontinued } |
| reasonCPRDiscontinuedCode CD Private [0..1] | The reason that CPR or the resuscitation efforts were discontinued. | <i>Default:</i> <u>NEMESIS Reference:</u> { E11_10 Reason CPR Discontinued } |

| Attribute | Notes | Constraints and tags |
|--|---|---|
| destinationArrivalCardiacRhythmCode CD Private Collection [0..*] | The patient's cardiac rhythm upon delivery or transfer to the destination | <i>Default:</i> NEMESIS Reference: { E11_11 Cardiac Rhythm on Arrival at Destination } |

E12_MedicalHistory

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS SIM
Detail: Created on 8/12/2009. Last modified on 8/25/2009
GUID: {22F6E2F4-A7B7-4125-9624-042F948154B9}

E12_MedicalHistory - (Logical diagram)

Created By: Salimah Shakir on 8/12/2009
Last Modified: 8/25/2009
Version: 1.0. *Locked:* False
GUID: {8242B66E-BE78-4f72-A49D-D7EDB4DC24DC}

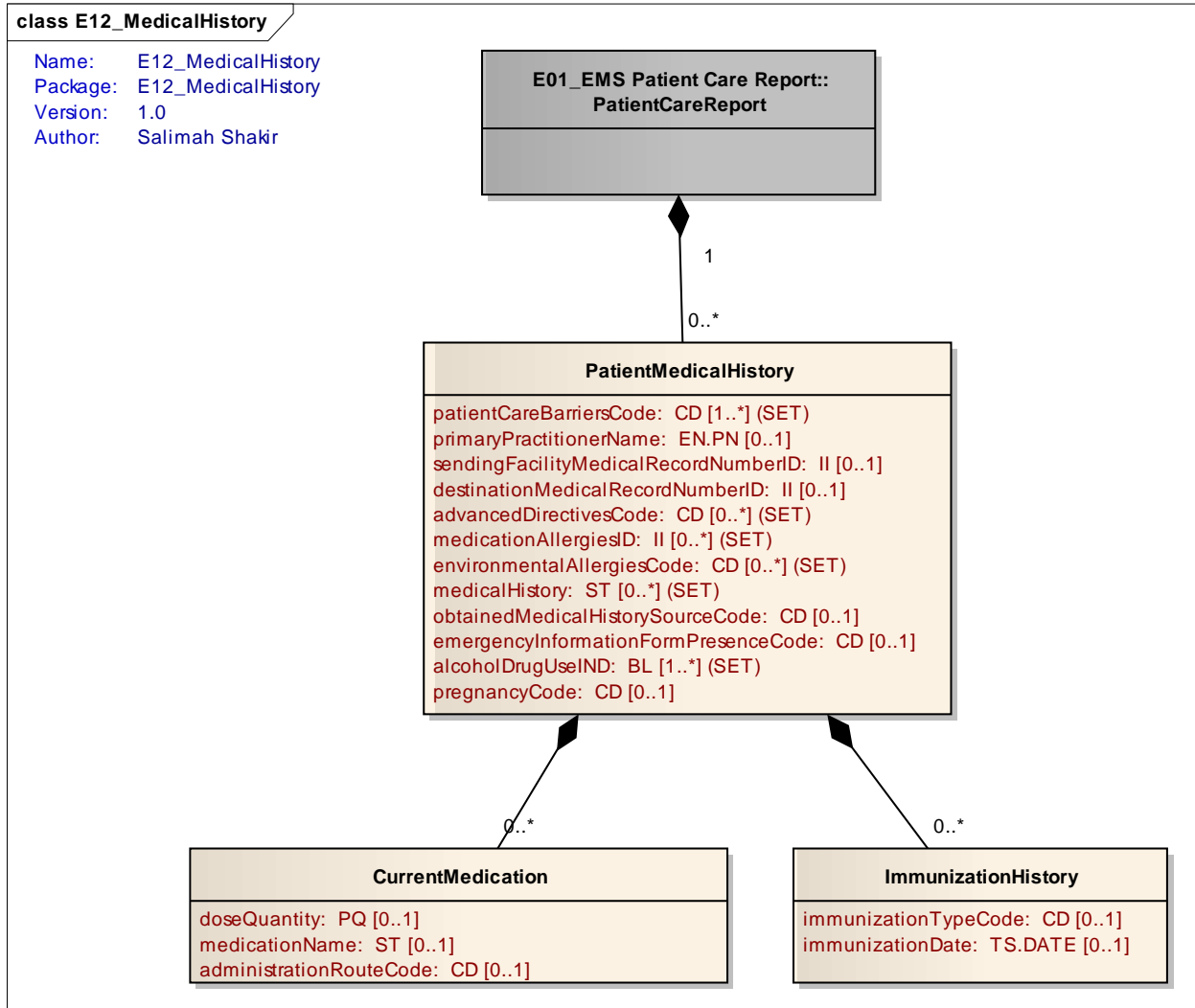


Figure: 39

CurrentMedication

Type: **Class**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: E12_MedicalHistory *Keywords:*
 Detail: Created on 7/30/2009. Last modified on 8/25/2009.
 GUID: {1F056551-B70A-4ef3-AB35-3B0E2273EBB6}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|---------------------------------|---------------------------------|-------|
| Aggregation Source -> Destination | Public CurrentMedication | Public PatientMedicalHistory | |
| Aggregation Source -> Destination | Public CurrentMedicationDose | Public CurrentMedication | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|--|---|
| doseQuantity PQ Private [0..1] | The numeric dose or amount of the patient's current medication | <i>Default:</i> <u>NEMESIS Reference:</u> { E12_15 Current Medication Dose } |
| medicationName ST Private [0..1] | The medications the patient currently takes | <i>Default:</i> <u>NEMESIS Reference:</u> { E12_14 Current Medications } |
| administrationRouteCode CD Private [0..1] | The administration route (po, SQ, etc.) of the patients current medication | <i>Default:</i> <u>NEMESIS Reference:</u> { E12_17 Current Medication Administration Route } |

CurrentMedicationDose

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: E12_MedicalHistory *Keywords:*
Detail: Created on 7/30/2009. Last modified on 8/25/2009.
GUID: {BA736C31-F728-43c3-8BF0-14F7E9D5B27C}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|---------------------------------|-----------------------------|-------|
| Aggregation Source -> Destination | Public CurrentMedicationDose | Public CurrentMedication | |

Attributes

| Attribute | Notes | Constraints and tags |
|---|--|---|
| doseQuantity PQ Private [0..1] | The numeric dose or amount of the patient's current medication | <i>Default:</i> NEMESIS Reference: { E12_15 Current Medication Dose } |
| doseQuantityUnitCode CD Private [0..1] | The dosage unit of the patient's current medication | <i>Default:</i> NEMESIS Reference: { E12_16 Current Medication Dosage Unit } |

ImmunizationHistory

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: E12_MedicalHistory *Keywords:*
Detail: Created on 7/30/2009. Last modified on 8/25/2009.
GUID: {2BAA67F4-263A-4c0e-8E5F-789531A92C2F}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|-------------------------------|---------------------------------|-------|
| Aggregation Source -> Destination | Public ImmunizationHistory | Public PatientMedicalHistory | |

Attributes

| Attribute | Notes | Constraints and tags |
|-----------|-------|----------------------|
|-----------|-------|----------------------|

| Attribute | Notes | Constraints and tags |
|---|--|---|
| immunizationTypeCode CD Private [0..1] | The type of immunization the patient has received. | <i>Default:</i> NEMESIS Reference: { E12_12 Immunization History } |
| immunizationDate TS.DATE Private [0..1] | The date of the associated immunization type. | <i>Default:</i> NEMESIS Reference: { E12_13 Immunization Date } |

PatientMedicalHistory

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: E12_MedicalHistory *Keywords:*
Detail: Created on 7/30/2009. Last modified on 8/25/2009.
GUID: {853ECF92-376C-40c3-9C90-913B66FC3F22}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|---------------------------------|---------------------------------|--|
| Aggregation Source -> Destination | Public ImmunizationHistory | Public PatientMedicalHistory | |
| Aggregation Source -> Destination | Public CurrentMedication | Public PatientMedicalHistory | |
| Aggregation Source -> Destination | Public PrimaryPractitioner | Public PatientMedicalHistory | |
| Association isPartOf Unspecified | Public PatientMedicalHistory | Public PatientCareReport | Each MedicalHistory always is part of one PatientCareReport. Each PatientCareReport sometimes includes one or more MedicalHistory. |

Attributes

| Attribute | Notes | Constraints and tags |
|---|--|---|
| patientCareBarriersCode CD Private Collection [1..*] | Indication of whether or not there were any patient specific barriers to serving the patient at the scene | <i>Default:</i> NEMESIS Reference: { E12_01 Barriers To Patient Care } |
| primaryPractitionerName EN.PN Private [0..1] | The first name of the patient's primary practitioner | <i>Default:</i> NEMESIS Reference: { E12_04 First Name Patient's Primary Practitioner } |
| sendingFacilityMedicalRecordNumberID II Private [0..1] | The medical record number of the medical facility who is transferring care to EMS | <i>Default:</i> NEMESIS Reference: { E12_02 SendingFacilityMedicalRecordNumber } |
| destinationMedicalRecordNumberID II Private [0..1] | The patient's medical record number at the patient's receiving facility | <i>Default:</i> NEMESIS Reference: { E12_03 Destination Medical Record Number } |
| advancedDirectivesCode CD Private Collection [0..*] | The presence of a valid for of living will of document directing end of life or healthcare treatment decisions | <i>Default:</i> NEMESIS Reference: { E12_07 Advanced Directives } |
| medicationAllergiesID II Private Collection [0..*] | The patient's medication allergies | <i>Default:</i> NEMESIS Reference: { E12_08 Medication Allergies } |

| Attribute | Notes | Constraints and tags |
|---|---|--|
| environmentalAllergiesCode CD Private Collection [0..*] | The patient's known allergies to food or environmental agents. | <i>Default:</i> NEMESIS Reference: { E12_09 Environmental/Food Allergies } |
| medicalHistory ST Private Collection [0..*] | The patient's pre-existing medical and surgery history of the patient | <i>Default:</i> NEMESIS Reference: { E12_10 Medical/Surgical History } |
| obtainedMedicalHistorySourceCode CD Private [0..1] | Type of person medical history obtained from | <i>Default:</i> NEMESIS Reference: { E12_11 Medical History Obtained From } |
| emergencyInformationFormPresenceCode CD Private [0..1] | Indication of the presence of the Emergency Information Form associated with patient's with special healthcare needs. | <i>Default:</i> NEMESIS Reference: { E12_18 Presence Of Emergency Information Form } |
| alcoholDrugUseIND BL Private Collection [1..*] | Indicators for the potential use of Alcohol or Drugs by the patient. | <i>Default:</i> NEMESIS Reference: { E12_19 Alcohol/Drug Use Indicators } |
| pregnancyCode CD Private [0..1] | Indication of the possibility by the patient's history of current pregnancy | <i>Default:</i> NEMESIS Reference: { E12_20 Pregnancy } |

PrimaryPractitioner

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: E12_MedicalHistory **Keywords:**
Detail: Created on 7/30/2009. Last modified on 8/25/2009.
GUID: {79AAB505-7E78-4189-86A3-B7484208BC49}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|-------------------------------|---------------------------------|-------|
| Aggregation Source -> Destination | Public PrimaryPractitioner | Public PatientMedicalHistory | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|--|
| patient'sPrimaryPractitionerFirstName EN.PN Private [0..1] | The first name of the patient's primary practitioner | <i>Default:</i> NEMESIS Reference: { E12_04 First Name Patient's Primary Practitioner } |
| patient'sPrimaryPractitionerMiddleName EN.PN Private [0..1] | The middle name of the patient's primary practitioner | <i>Default:</i> NEMESIS Reference: { E12_05 Middle Name Of Patient's Primary Practitioner } |
| patient'sPrimaryPractitionerLastName EN.PN Private [0..1] | The last name of the patient's primary practitioner | <i>Default:</i> NEMESIS Reference: { E12_06 Last Name Of Patient's Primary Practitioner } |

E14_VitalAssessment

Type: **Package**

Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS SIM
Detail: Created on 8/12/2009. Last modified on 8/26/2009
GUID: {A0B32044-13BD-49fe-8763-BC97210C9200}

E14 VitalAssessment - (Logical diagram)

Created By: Salimah Shakir on 8/12/2009
Last Modified: 8/25/2009
Version: 1.0. *Locked:* False
GUID: {AEC0E1FD-09CE-4d53-8307-8FC1F4F782EF}

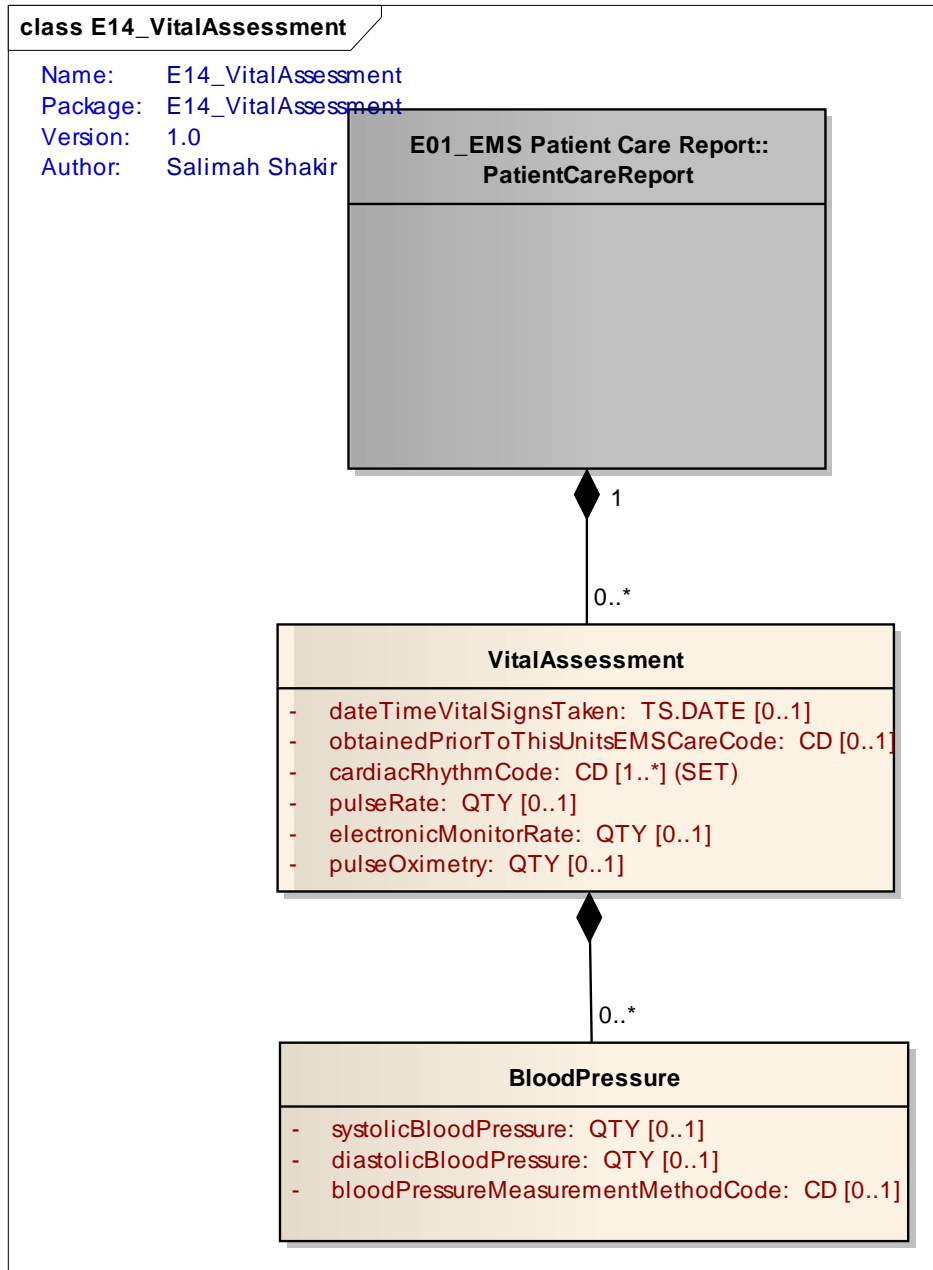


Figure: 40

BloodPressure

Type: Class
Status: Proposed. Version 1.0. Phase 1.0.
Package: E14_VitalAssessment *Keywords:*
Detail: Created on 8/2/2009. Last modified on 8/25/2009.
GUID: {9E26DD84-9F83-4f95-A14C-1CB4B75E2025}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|-------------------------|---------------------------|-------|
| Aggregation Source -> Destination | Public BloodPressure | Public VitalAssessment | |

Attributes

| Attribute | Notes | Constraints and tags |
|---|---|--|
| systolicBloodPressure QTY Private [0..1] | The patient's systolic blood pressure | <i>Default:</i> <u>NEMESIS Reference:</u> { E14_04 SBP (Systolic Blood Pressure) } |
| diastolicBloodPressure QTY Private [0..1] | The patient's diastolic blood pressure | <i>Default:</i> <u>NEMESIS Reference:</u> { E14_05 DBP (Diastolic Blood Pressure) } |
| bloodPressureMeasurementMethodCode CD Private [0..1] | Indication of method of blood pressure procedure. | <i>Default:</i> <u>NEMESIS Reference:</u> { E14_06 Method Of Blood Pressure Measurement } |

VitalAssessment

Type: Class
Status: Proposed. Version 1.0. Phase 1.0.
Package: E14_VitalAssessment *Keywords:*
Detail: Created on 8/2/2009. Last modified on 8/25/2009.
GUID: {18394ADF-5A1E-4487-8565-5CD4906EFB4E}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|---------------------------|-----------------------------|--|
| <u>Aggregation</u> Source -> Destination | Public BloodPressure | Public VitalAssessment | |
| <u>Association</u> isPartOf Unspecified | Public VitalAssessment | Public PatientCareReport | Each Assessment/VitalSigns always is part of one PatientCareReport. Each PatientCareReport sometimes includes one or more Assessment/VitalSigns. |

Attributes

| Attribute | Notes | Constraints and tags |
|--|--|--|
| dateTimeVitalSignsTaken TS.DATE Private [0..1] | Date/Time Vital Signs Taken | <i>Default:</i> <u>NEMESIS Reference:</u> { E14_01 Date/Time Vital Signs Taken } |
| obtainedPriorToThisUnitsEMSCareCode CD Private [0..1] | Indicates that the information which is documented was obtained prior to the EMS unit's care creating this patient care report | <i>Default:</i> <u>NEMESIS Reference:</u> { E14_02 Obtained Prior To This Units EMS Care } |

| Attribute | Notes | Constraints and tags |
|--|---|---|
| cardiacRhythmCode CD Private Collection [1..*] | The initial cardiac rhythm of the patient as interpreted by EMS personnel | <i>Default:</i> <u>NEMESIS Reference:</u> { E14_ Cardiac Rhythm } |
| pulseRate QTY Private [0..1] | The patient's pulse rate, palpated or auscultated, expressed as a number per minute | <i>Default:</i> <u>NEMESIS Reference:</u> { E14_07 Pulse Rate } |
| electronicMonitorRate QTY Private [0..1] | The patient's heart rate as recorded by an electronic monitoring device (ECG, pulse oximetry, etc.) | <i>Default:</i> <u>NEMESIS Reference:</u> { E14_08 Electronic Monitor Rate } |
| pulseOximetry QTY Private [0..1] | The patient's oxygen saturation | <i>Default:</i> <u>NEMESIS Reference:</u> { E14_09 Pulse Oximetry } |

E15_InjuryAssessment

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS SIM
Detail: Created on 8/12/2009. Last modified on 8/26/2009
GUID: {E1CB571E-1A33-4542-AAD4-D38101755F7D}

E15_InjuryAssessment - (Logical diagram)

Created By: Salimah Shakir on 8/12/2009
Last Modified: 8/26/2009
Version: 1.0. *Locked:* False
GUID: {76D5C07B-0D5B-4803-9E86-8FE976D35473}

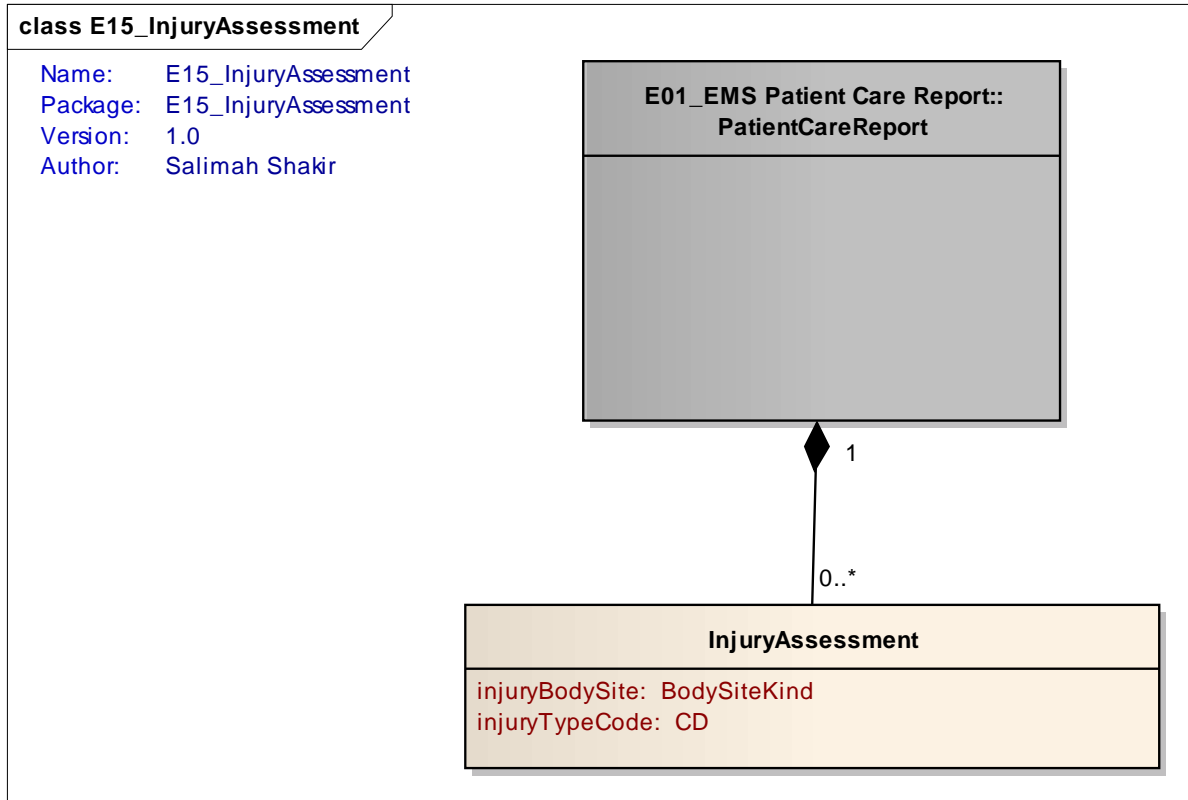


Figure: 41

InjuryAssessment

Type: Class
Status: Proposed. Version 1.0. Phase 1.0.
Package: E15_InjuryAssessment *Keywords:*
Detail: Created on 8/7/2009. Last modified on 8/26/2009.
GUID: {7741CCD4-7700-422e-9AE3-BC75EAF4EB22}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|----------------------------|-----------------------------|---|
| <u>Association</u> isPartOf Unspecified | Public InjuryAssessment | Public PatientCareReport | Each InjuryAssessment always is part of one PatientCareReport Each PatientCareReport sometimes includes one or more InjuryAssessment |

Attributes

| Attribute | Notes | Constraints and tags |
|--|-------|--|
| injuryBodySite BodySiteKind Private | | <i>Default:</i> |
| injuryTypeCode CD Private | | <i>Default:</i> NEMESIS Reference: { E15_01 NHTSA Injury Matrix External/Skin } NEMESIS Reference: { E15_02 NHTSA Injury Matrix Head } NEMESIS Reference: { E15_03 NHTSA Injury Matrix Face } NEMESIS Reference: { E15_04 NHTSA Injury Matrix Neck } NEMESIS Reference: { E15_05 NHTSA Injury Matrix Thorax } NEMESIS Reference: { E15_06 NHTSA Injury Matrix Abdomen } NEMESIS Reference: { E15_07 NHTSA Injury Matrix Spine } NEMESIS Reference: { E15_08 NHTSA Injury Matrix Upper Extremities } NEMESIS Reference: { E15_09 NHTSA Injury Matrix Pelvis } NEMESIS Reference: { E15_10 NHTSA Injury Matrix Lower Extremities } NEMESIS Reference: { E15_11 NHTSA Injury Matrix Unspecified } |

E16_PatientAssessment

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS SIM
Detail: Created on 8/12/2009. Last modified on 8/26/2009
GUID: {1895FD23-568E-4dd0-B38D-B3745040728C}

E16_PatientAssessment - (Logical diagram)

Created By: AbdulMalik Shakir on 8/12/2009
Last Modified: 8/26/2009

Version: 1.0. Locked: False
 GUID: {20C690A2-561B-4e2e-8CEE-80EBFD9DD190}

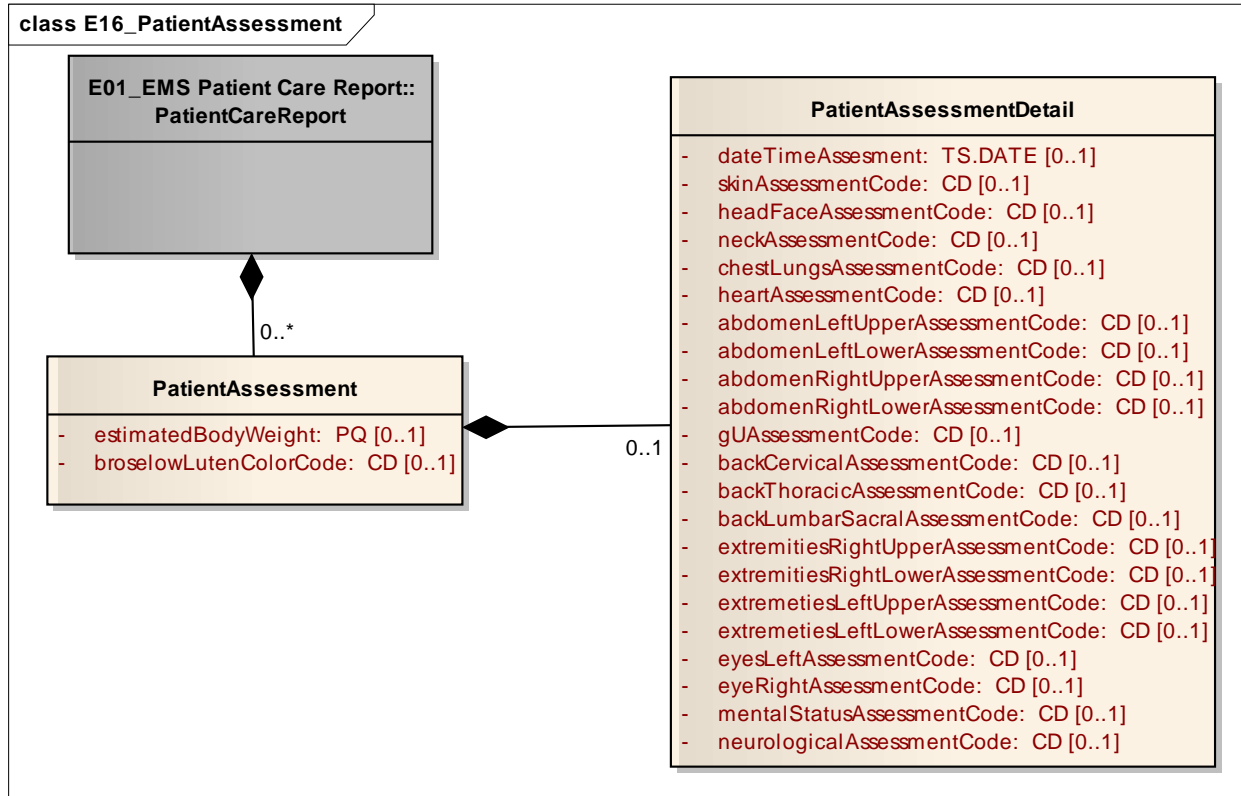


Figure: 42

PatientAssessment

Type: **Class**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: E16_PatientAssessment **Keywords:**
 Detail: Created on 8/12/2009. Last modified on 8/26/2009.
 GUID: {6484AF0A-8CDC-47e9-AEA1-2F64E217BF4C}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|--|-----------------------------|-------|
| Aggregation Source -> Destination | Public PatientAssessmentDetail 1 | Public PatientAssessment | |

| Connector | Source | Target | Notes |
|--|-----------------------------|-----------------------------|---|
| Association isPartOf Unspecified | Public PatientAssessment | Public PatientCareReport | Each Assessment always is part of one PatientCareReport. Each PatientCareReport sometimes includes one or more Assessment. |

Attributes

| Attribute | Notes | Constraints and tags |
|--|--|--|
| estimatedBodyWeight PQ Private [0..1] | The patient's body weight in kilograms, either measured or estimated | <i>Default:</i> NEMESIS Reference: { E16_01 Estimated Body Weight } |
| broselowLutenColorCode CD Private [0..1] | The Broselow/Luten Color as take from the tape | <i>Default:</i> NEMESIS Reference: { E16_02 Broselow/Luten Color } |

PatientAssessmentDetail

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: E16_PatientAssessment *Keywords:*
Detail: Created on 8/12/2009. Last modified on 8/26/2009.
GUID: {252C9F9D-42FB-4431-A25C-5C6D828E32D7}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|-----------------------------------|-----------------------------|-------|
| Aggregation Source -> Destination | Public PatientAssessmentDetail | Public PatientAssessment | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|--|--|
| dateTimeAssesment TS.DATE Private [0..1] | The date/time assesment was made on the patient | <i>Default:</i> <u>NEMESIS Reference:</u> { E16_03 Date/Time Of Assesment } |
| skinAssesmentCode CD Private [0..1] | The assesment of the patient's skin on examination | <i>Default:</i> <u>NEMESIS Reference:</u> { E16_04 Skin Assesment } |
| headFaceAssesmentCode CD Private [0..1] | The assesment of the patient's face on examination | <i>Default:</i> <u>NEMESIS Reference:</u> { E16_05 Head/Face Assesment } |
| neckAssesmentCode CD Private [0..1] | The assesment of the patient's head & neck area on examination | <i>Default:</i> <u>NEMESIS Reference:</u> { E16_06 Neck Assesment } |
| chestLungsAssesmentCode CD Private [0..1] | The assesment of the patient's chest on examination | <i>Default:</i> <u>NEMESIS Reference:</u> { E16_07 Chest/Lungs Assesment } |
| heartAssesmentCode CD Private [0..1] | The assesment of the patient's heart on examination | <i>Default:</i> <u>NEMESIS Reference:</u> { E16_08 Heart Assesment } |

| Attribute | Notes | Constraints and tags |
|--|--|---|
| abdomenLeftUpperAssessmentCode CD Private [0..1] | The assessment of the patient's left upper abdomen on examination | <i>Default:</i> <u>NEMESIS Reference:</u> { E16_09 Abdomen Left Upper Assessment } |
| abdomenLeftLowerAssessmentCode CD Private [0..1] | The assessment of the patient's left lower abdomen on examination | <i>Default:</i> <u>NEMESIS Reference:</u> { E16_10 Abdomen Left Lower Assessment } |
| abdomenRightUpperAssessmentCode CD Private [0..1] | The assessment of the patient's right upper abdomen on examination | <i>Default:</i> <u>NEMESIS Reference:</u> { E16_11 Abdomen Right Upper Assessment } |
| abdomenRightLowerAssessmentCode CD Private [0..1] | The assessment of the patient's right lower abdomen on examination | <i>Default:</i> <u>NEMESIS Reference:</u> { E16_12 Abdomen Right Lower Assessment } |
| gUAssessmentCode CD Private [0..1] | The assessment of the patient's GU area on examination | <i>Default:</i> <u>NEMESIS Reference:</u> { E16_13 GU Assessment } |
| backCervicalAssessmentCode CD Private [0..1] | The assessment of the patient's back-cervical on examination | <i>Default:</i> <u>NEMESIS Reference:</u> { E16_14 Back Cervical Assessment } |

| Attribute | Notes | Constraints and tags |
|--|--|--|
| backThoracicAssessmentCode CD Private [0..1] | The assessment of the patient's back-thoracic on examination | <i>Default:</i> <u>NEMESIS Reference:</u> { E16_15 Back Thoracic Assessment } |
| backLumbarSacralAssessmentCode CD Private [0..1] | The assessment of the patient's back-lumbar/sacral on examination | <i>Default:</i> <u>NEMESIS Reference:</u> { E16_16 Back Lumbar/Sacral Assessment } |
| extremitiesRightUpperAssessmentCode CD Private [0..1] | The assessment of the patient's right upper extremities on examination | <i>Default:</i> <u>NEMESIS Reference:</u> { E15_17 Extremities-Right Upper Assessment } |
| extremitiesRightLowerAssessmentCode CD Private [0..1] | The assessment of the patient's right lower extremities on examination | <i>Default:</i> <u>NEMESIS Reference:</u> { E16_18 Extremities-Right Lower Assessment } |
| extremitiesLeftUpperAssessmentCode CD Private [0..1] | The assessment of the patient's left upper extremities on examination | <i>Default:</i> <u>NEMESIS Reference:</u> { E16_19 Extremities-Left Upper Assessment } |
| extremitiesLeftLowerAssessmentCode CD Private [0..1] | The assessment of the patient's left lower extremities on examination | <i>Default:</i> <u>NEMESIS Reference:</u> { E16_20 Extremities-Left Lower Assessment } |

| Attribute | Notes | Constraints and tags |
|--|--|---|
| eyesLeftAssessmentCode CD Private [0..1] | The assessment of the patient's left eye on examination | <i>Default:</i> <u>NEMESIS Reference:</u> { E16_21 Eyes-Left Assessment } |
| eyeRightAssessmentCode CD Private [0..1] | The assessment of the patient's right eye on examination | <i>Default:</i> <u>NEMESIS Reference:</u> { E16_22 Eyes-Right Assessment } |
| mentalStatusAssessmentCode CD Private [0..1] | The assessment of the patient's mental status on examination | <i>Default:</i> <u>NEMESIS Reference:</u> { E16_23 Mental Status Assessment } |
| neurologicalAssessmentCode CD Private [0..1] | The assessment of the patient's neurological status on examination | <i>Default:</i> <u>NEMESIS Reference:</u> { E16_24 Neurological Assessment } |

Information Flow Objects

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Static Information Model
Detail: Created on 8/24/2009. Last modified on 8/25/2009
GUID: {B7EBFDF8-C2E7-4ae2-877D-F11D3B790DC7}

EMS DAM Information Flow Objects Packages - (Package diagram)

Created By: AbdulMalik Shakir on 8/24/2009
Last Modified: 8/24/2009
Version: 1.0. *Locked:* False
GUID: {FF8B2EAB-0D70-46e9-8639-BBEC885A585F}

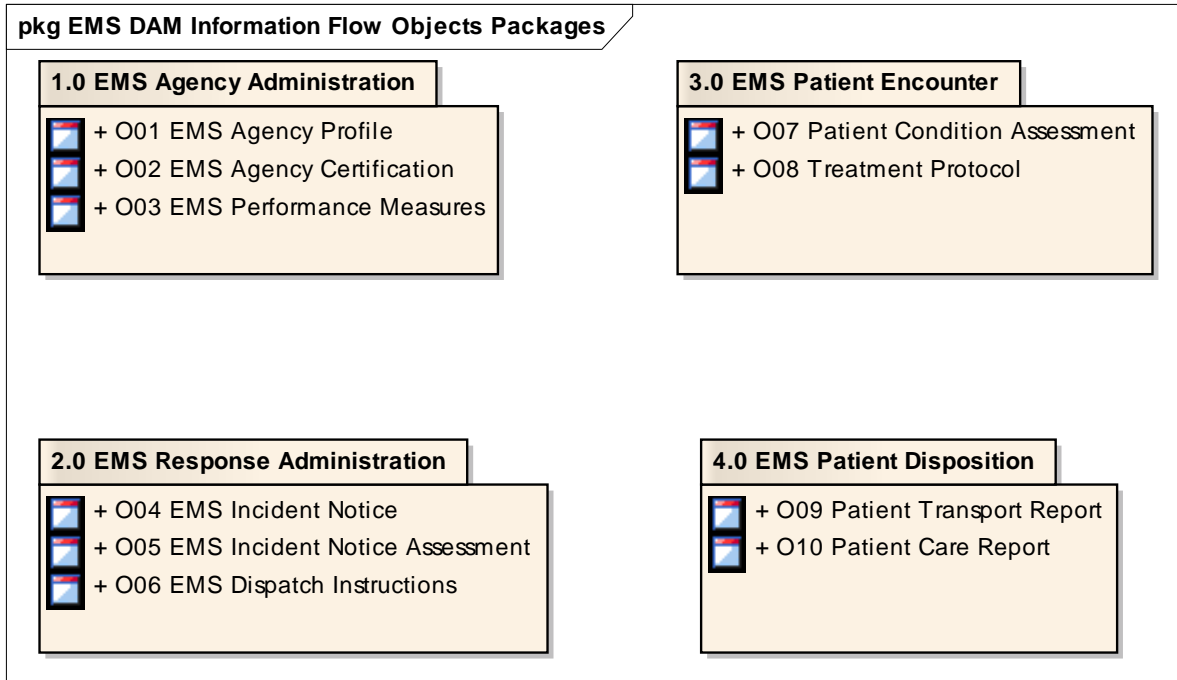


Figure: 43

EMS DAM Information Flow Objects - (Object diagram)

Created By: AbdulMalik Shakir on 8/24/2009
Last Modified: 8/26/2009
Version: 1.0. *Locked:* False
GUID: {76D54306-5324-4093-94A5-B0B0E61428D7}

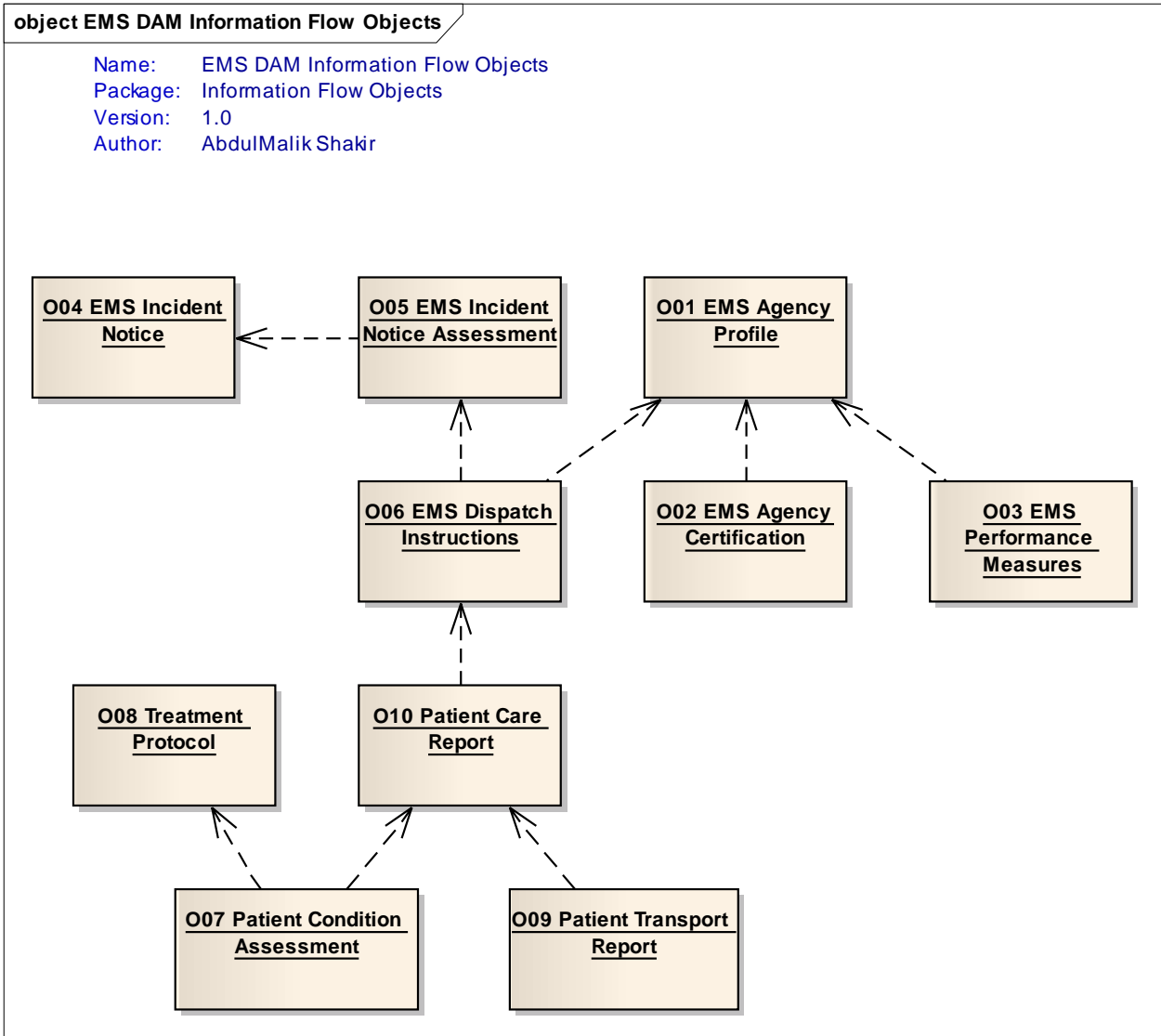


Figure: 44

1.0 EMS Agency Administration

Type: **Package**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: Information Flow Objects
 Detail: Created on 8/24/2009. Last modified on 8/24/2009
 GUID: {77C15AB1-0549-4056-A859-0E37A1279DEA}

1.0 EMS Agency Administration - (Object diagram)

Created By: AbdulMalik Shakir on 8/24/2009
 Last Modified: 8/26/2009
 Version: 1.0. Locked: False
 GUID: {804FF807-D299-44bc-BB48-F2F7A08E35AC}

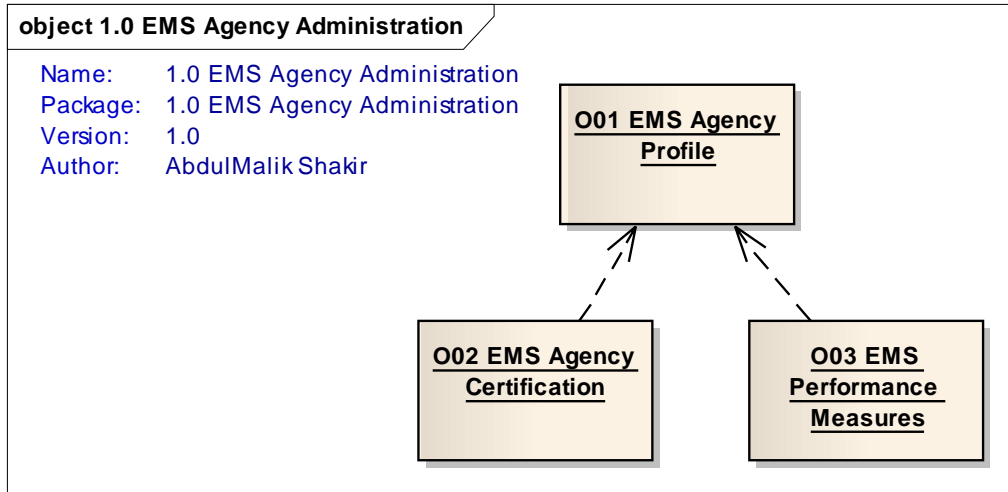


Figure: 45

O01 EMS Agency Profile

Type: **Object**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: 1.0 EMS Agency Administration *Keywords:*
 Detail: Created on 7/28/2009. Last modified on 8/24/2009.
 GUID: {4DEAFF7B-0760-407c-8A5E-187B75991335}

Connections

| Connector | Source | Target | Notes |
|--|---|--|-------|
| Dependency Source -> Destination | Public O02 EMS Agency Certification | Public O01 EMS Agency Profile | |
| Dependency Source -> Destination | Public O03 EMS Performance Measures | Public O01 EMS Agency Profile | |
| Dependency Source -> Destination | Public O06 EMS Dispatch Instructions | Public O01 EMS Agency Profile | |
| Information Flow Source -> Destination | Public O01 EMS Agency Profile | Public 1.3 Monitor EMS Agency Performance | |
| Information Flow Source -> Destination | Public 1.1 Maintain EMS Agency Profile | Public O01 EMS Agency Profile | |
| Information Flow Source -> Destination | Public O01 EMS Agency | Public 1.2 Certify EMS | |

| Connector | Source | Target | Notes |
|-----------|---------|--------|-------|
| | Profile | Agency | |

002 EMS Agency Certification

Type: **Object**
Status: Proposed. Version 1.0. Phase 1.0.
Package: 1.0 EMS Agency Administration *Keywords:*
Detail: Created on 7/28/2009. Last modified on 8/24/2009.
GUID: {8B1C4934-F194-441f-9B1F-9A84BD7361BA}

Connections

| Connector | Source | Target | Notes |
|--|---|---|-------|
| Dependency Source -> Destination | Public O02 EMS Agency Certification | Public O01 EMS Agency Profile | |
| Information Flow Source -> Destination | Public 1.2 Certify EMS Agency | Public O02 EMS Agency Certification | |
| Information Flow Source -> Destination | Public O02 EMS Agency Certification | Public 1.3 Monitor EMS Agency Performance | |

003 EMS Performance Measures

Type: **Object**
Status: Proposed. Version 1.0. Phase 1.0.
Package: 1.0 EMS Agency Administration *Keywords:*
Detail: Created on 7/28/2009. Last modified on 8/24/2009.
GUID: {763480B8-6BC4-4dcd-92D6-2178BEEDE215}

Connections

| Connector | Source | Target | Notes |
|--|---|---|-------|
| Dependency Source -> Destination | Public O03 EMS Performance Measures | Public O01 EMS Agency Profile | |
| Information Flow Source -> Destination | Public 1.3 Monitor EMS Agency Performance | Public O03 EMS Performance Measures | |

2.0 EMS Response Administration

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Information Flow Objects
Detail: Created on 8/24/2009. Last modified on 8/24/2009
GUID: {3F972746-E6EC-4866-BA4C-C26DA9B0B902}

2.0 EMS Response Administration - (Object diagram)

Created By: AbdulMalik Shakir on 8/24/2009
Last Modified: 8/26/2009
Version: 1.0. Locked: False
GUID: {57612023-90EE-48f2-8868-017E24E7D57E}

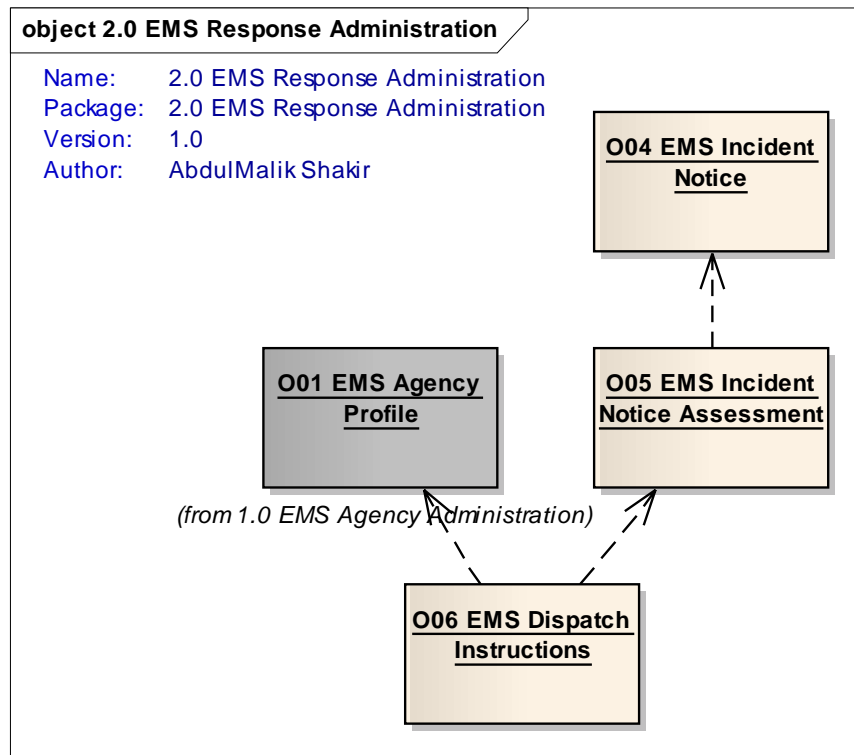


Figure: 46

004 EMS Incident Notice

Type: **Object**
Status: Proposed. Version 1.0. Phase 1.0.
Package: 2.0 EMS Response Administration *Keywords:*
Detail: Created on 8/24/2009. Last modified on 8/24/2009.
GUID: {CD7F3129-8417-4de0-ADED-0EDA3986E704}

Connections

| Connector | Source | Target | Notes |
|--|--|---|-------|
| Dependency Source -> Destination | Public O05 EMS Incident Notice Assessment | Public O04 EMS Incident Notice | |
| Information Flow Source -> Destination | Public 2.1 Provide EMS Incident Notification | Public O04 EMS Incident Notice | |
| Information Flow Source -> Destination | Public O04 EMS Incident Notice | Public 2.2 Access EMS Incident Notice | |

O05 EMS Incident Notice Assessment

Type: **Object**
Status: Proposed. Version 1.0. Phase 1.0.
Package: 2.0 EMS Response Administration *Keywords:*
Detail: Created on 8/24/2009. Last modified on 8/24/2009.
GUID: {9682865D-21A1-4547-AB3F-2AE581863578}

Connections

| Connector | Source | Target | Notes |
|--|---|---|-------|
| Information Flow Source -> Destination | Public 2.2 Access EMS Incident Notice | Public O05 EMS Incident Notice Assessment | |
| Dependency Source -> Destination | Public O06 EMS Dispatch Instructions | Public O05 EMS Incident Notice Assessment | |
| Dependency Source -> Destination | Public O05 EMS Incident Notice Assessment | Public O04 EMS Incident Notice | |
| Information Flow Source -> Destination | Public O05 EMS Incident Notice Assessment | Public 2.3 Dispatch EMS Personnel | |

O06 EMS Dispatch Instructions

Type: **Object**
Status: Proposed. Version 1.0. Phase 1.0.

Package: 2.0 EMS Response Administration **Keywords:**
Detail: Created on 8/24/2009. Last modified on 8/24/2009.
GUID: {84C6F8B6-760F-4ca8-B66F-6918E9970C27}

Connections

| Connector | Source | Target | Notes |
|---|--|---|--------------|
| <u>Dependency</u> Source -> Destination | Public O10 Patient Care Report | Public O06 EMS Dispatch Instructions | |
| <u>Dependency</u> Source -> Destination | Public O06 EMS Dispatch Instructions | Public O05 EMS Incident Notice Assessment | |
| <u>Information Flow</u> Source -> Destination | Public 2.3 Dispatch EMS Personnel | Public O06 EMS Dispatch Instructions | |
| <u>Dependency</u> Source -> Destination | Public O06 EMS Dispatch Instructions | Public O01 EMS Agency Profile | |
| <u>Information Flow</u> Source -> Destination | Public O06 EMS Dispatch Instructions | Public 3.1 Assess Patient Condition | |

3.0 EMS Patient Encounter

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Information Flow Objects
Detail: Created on 8/24/2009. Last modified on 8/24/2009
GUID: {8D7D6AD6-8518-46ff-957D-D5FCD4175028}

3.0 EMS Patient Encounter - (Object diagram)

Created By: AbdulMalik Shakir on 8/24/2009
Last Modified: 8/26/2009
Version: 1.0. **Locked:** False
GUID: {58BDCDDE-1823-4fb1-A4E1-7E666901C2C1}

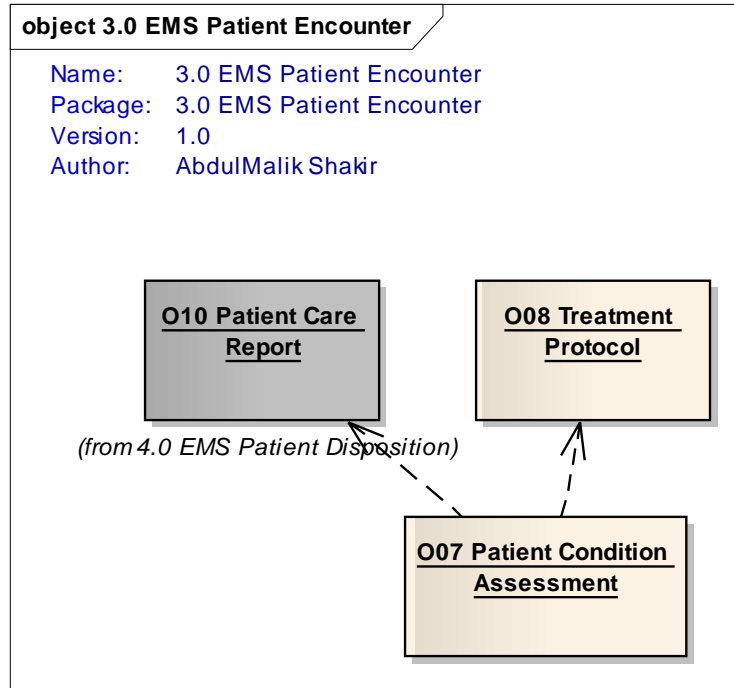


Figure: 47

007 Patient Condition Assessment

Type: **Object**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: 3.0 EMS Patient Encounter *Keywords:*
 Detail: Created on 8/24/2009. Last modified on 8/24/2009.
 GUID: {FD976073-22E7-49db-BD90-F49D2E011ED1}

Connections

| Connector | Source | Target | Notes |
|--|--|---|-------|
| Information Flow Source -> Destination | Public O07 Patient Condition Assessment | Public 3.3 Provide Medical Oversight | |
| Dependency Source -> Destination | Public O07 Patient Condition Assessment | Public O10 Patient Care Report | |
| Dependency Source -> Destination | Public O07 Patient Condition Assessment | Public O08 Treatment Protocol | |
| Information Flow Source -> Destination | Public O07 Patient Condition Assessment | Public 3.2 Treat Patient | |

| Connector | Source | Target | Notes |
|--|---|---|-------|
| Information Flow Source -> Destination | Public 3.1 Assess Patient Condition | Public O07 Patient Condition Assessment | |

O08 Treatment Protocol

Type: **Object**
Status: Proposed. Version 1.0. Phase 1.0.
Package: 3.0 EMS Patient Encounter *Keywords:*
Detail: Created on 8/24/2009. Last modified on 8/24/2009.
GUID: {0062CEF2-90A4-420e-9BCB-CE472FDD6497}

Connections

| Connector | Source | Target | Notes |
|--|---|----------------------------------|-------|
| Information Flow Source -> Destination | Public 3.3 Provide Medical Oversight | Public O08 Treatment Protocol | |
| Dependency Source -> Destination | Public O07 Patient Condition Assessment | Public O08 Treatment Protocol | |
| Information Flow Source -> Destination | Public O08 Treatment Protocol | Public 3.2 Treat Patient | |

4.0 EMS Patient Disposition

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Information Flow Objects
Detail: Created on 8/24/2009. Last modified on 8/24/2009
GUID: {3B474C17-8781-4ac3-A279-EDB8E6A698E8}

4.0 EMS Patient Disposition - (Object diagram)

Created By: AbdulMalik Shakir on 8/24/2009
Last Modified: 8/26/2009
Version: 1.0. *Locked:* False
GUID: {3847FE26-C264-4f89-8547-1ACE0673BDE2}

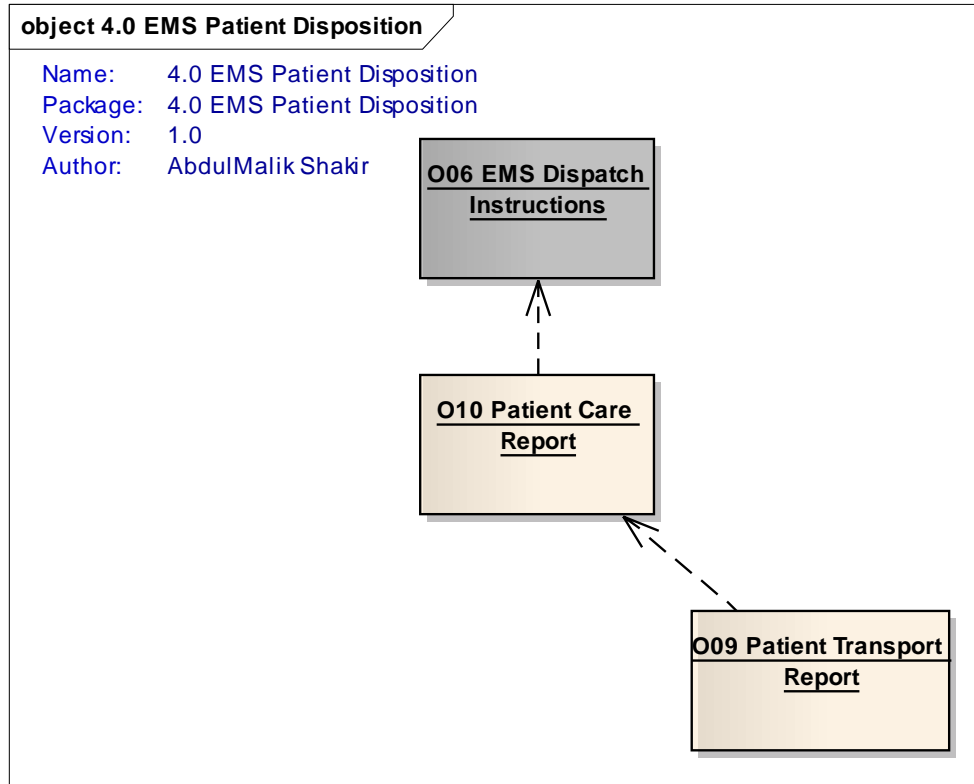


Figure: 48

O09 Patient Transport Report

Type: **Object**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: 4.0 EMS Patient Disposition *Keywords:*
 Detail: Created on 8/24/2009. Last modified on 8/24/2009.
 GUID: {516AA960-381C-440d-BEAC-A6C3E912E074}

Connections

| Connector | Source | Target | Notes |
|--|--|--|-------|
| Dependency Source -> Destination | Public O09 Patient Transport Report | Public O10 Patient Care Report | |
| Information Flow Source -> Destination | Public 4.1 Transport Patient | Public O09 Patient Transport Report | |

O10 Patient Care Report

Type: **Object**
Status: Proposed. Version 1.0. Phase 1.0.
Package: 4.0 EMS Patient Disposition *Keywords:*
Detail: Created on 8/24/2009. Last modified on 8/24/2009.
GUID: {71A3D455-58CA-41a7-92F8-6F6844B28D14}

Connections

| Connector | Source | Target | Notes |
|--|---|--|--------------|
| Dependency Source -> Destination | Public O10 Patient Care Report | Public O06 EMS Dispatch Instructions | |
| Dependency Source -> Destination | Public O09 Patient Transport Report | Public O10 Patient Care Report | |
| Dependency Source -> Destination | Public O07 Patient Condition Assessment | Public O10 Patient Care Report | |
| Information Flow Source -> Destination | Public 4.2 Transfer Medical Control | Public O10 Patient Care Report | |
| Information Flow Source -> Destination | Public 3.2 Treat Patient | Public O10 Patient Care Report | |

LocalDatatypes

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS DAM Static Information Model
Detail: Created on 5/30/2009. Last modified on 6/16/2009
GUID: {9B985707-963E-4bbd-A050-8D58FC2C4DAF}

LocalDatatypes Package Diagram - (Package diagram)

Created By: AbdulMalik Shakir on 6/16/2009
Last Modified: 6/16/2009
Version: 1.0. *Locked:* False
GUID: {6CCFE2B4-6630-4aee-8DD7-6961F7C09D6C}

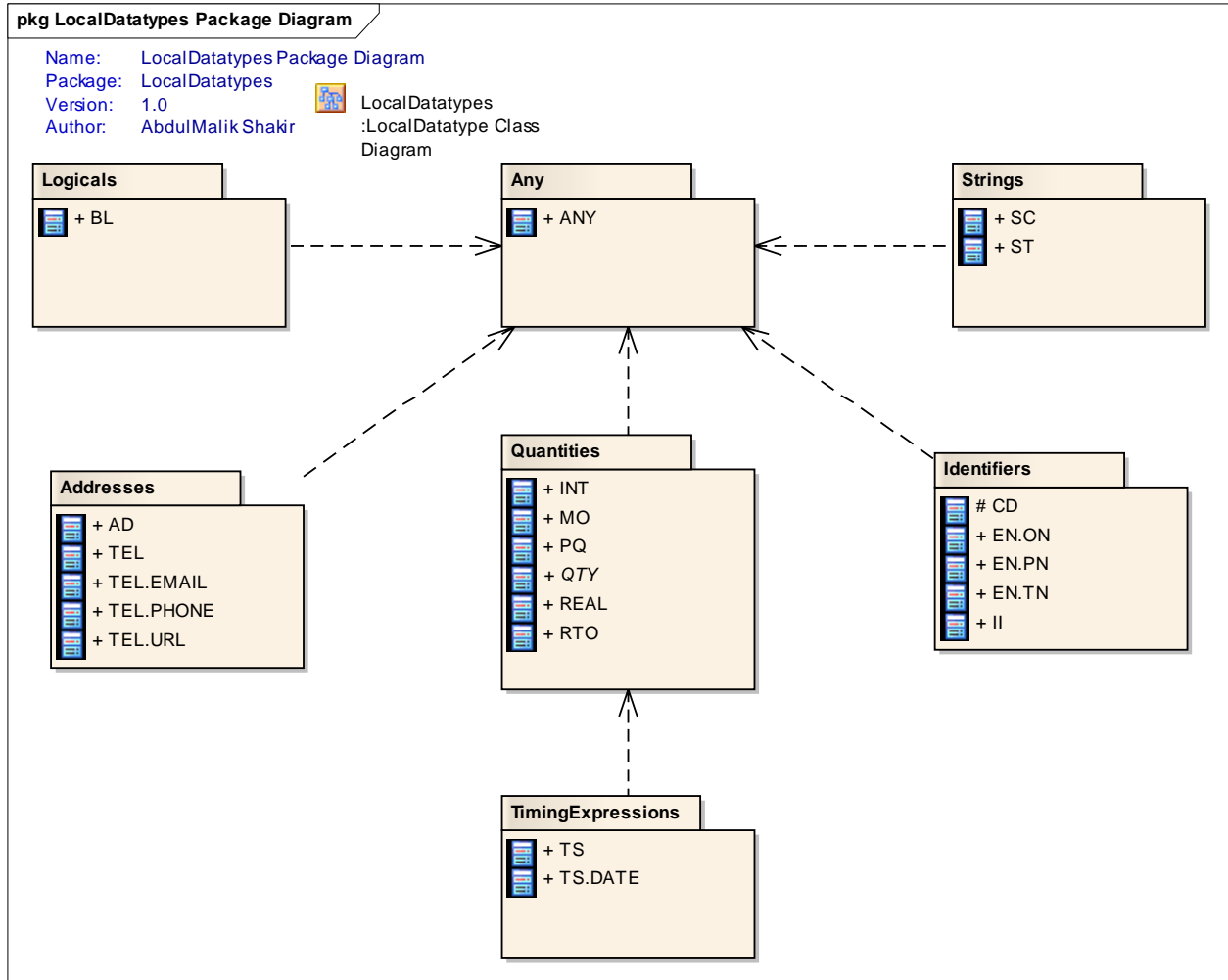


Figure: 49

LocalDatatype Class Diagram - (Logical diagram)

Created By: AbdulMalik Shakir on 5/30/2009
Last Modified: 6/16/2009
Version: 1.0. Locked: False
GUID: {AE1F4F36-FEAF-4e10-87A6-2EE9A36E238A}

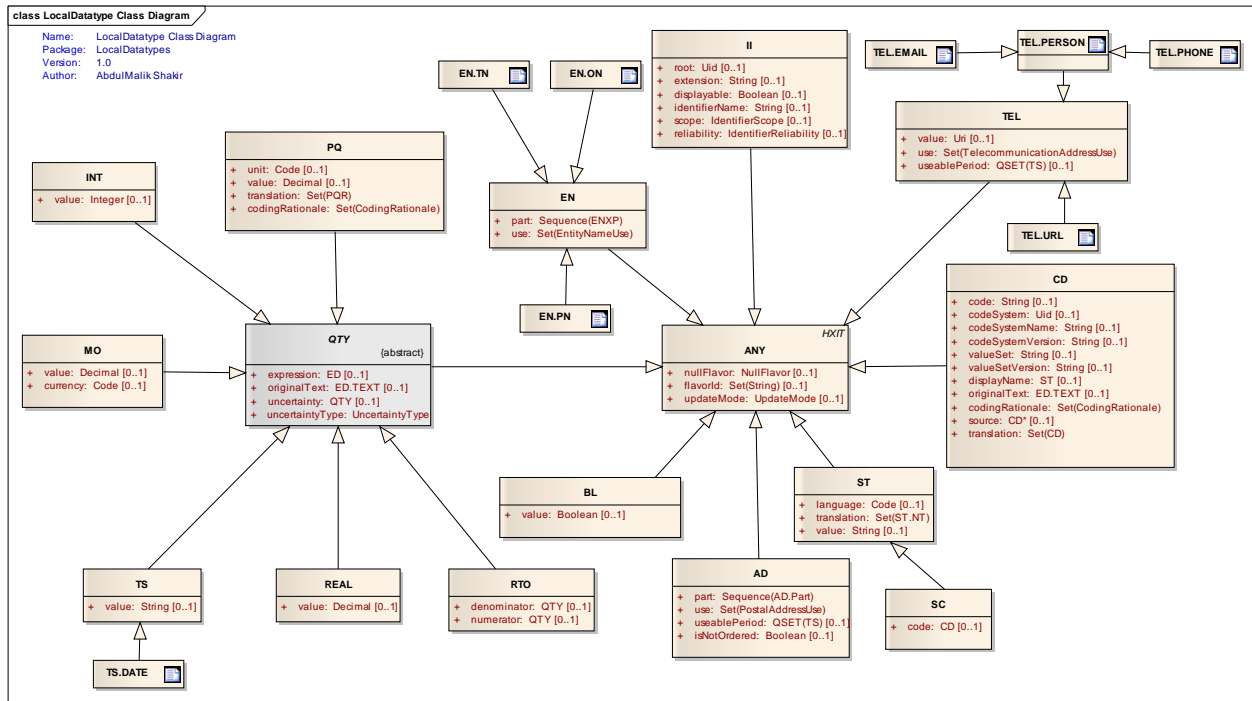


Figure: 50

LocalDatatype Class Diagram

Type: **Text**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: LocalDatatypes **Keywords:**
 Detail: Created on 6/16/2009. Last modified on 6/16/2009.
 GUID: {6A230467-7839-46f3-82AC-6804479B9D73}

LocalDatatypes :LocalDatatype Class Diagram

Any

Type: **Package**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: LocalDatatypes
 Detail: Created on 6/16/2009. Last modified on 6/16/2009
 GUID: {9D58A26C-BEFF-4ecd-A672-464243544C1B}

Any - (Logical diagram)

Created By: AbdulMalik Shakir on 6/16/2009
 Last Modified: 6/16/2009
 Version: 1.0. **Locked:** False
 GUID: {89C8D4F6-110A-4354-9F91-E433648F5474}

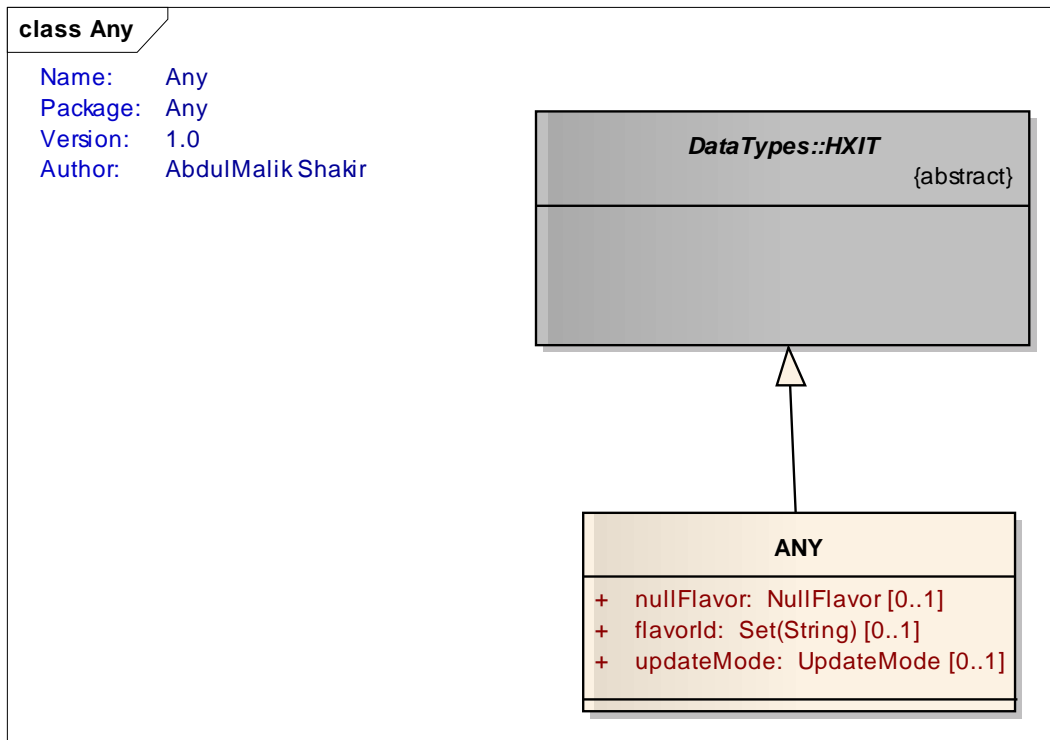


Figure: 51

ANY

Type: **Class HXIT**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Any *Keywords:*
Detail: Created on 7/26/2006. Last modified on 6/16/2009.
GUID: {2147B873-37D4-4146-9287-C16E658C6A86}

Defines the basic properties of every data value. This is conceptually an abstract type, meaning that no proper value can be just a data value without belonging to any concrete type. Every public concrete type is a specialization of this general abstract DataValue type.

However exceptional values (null values) may be of type ANY, except for the exceptional values that imply the nullFlavor INV, since this requires a type to be meaningful.

Constraints

- no ANY unless null: (*Invariant, Status is Approved*)
 def: let isNull : Boolean = nullFlavor.ocIsDefined
 def: let isNotNull : Boolean = not isNull
 def: let noUpdate : Boolean = updateMode.ocIsUndefined
 def: let noUpdateOrHistory() : Boolean = noUpdate and
 noHistory
 def: let noUpdateOrHistory(member : ANY) : Boolean =
 member.ocIsDefined implies member.noUpdate and
 member.noHistory

inv "no ANY unless null": (isNotNull or

Constraints

nullFlavor.implies(NullFlavor.INV)) implies
not oclIsTypeOf(ANY)

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|-----------------|----------------|--------------|
| <u>Generalization</u> Source -> Destination | Public ST | Public ANY | |
| <u>Realisation</u> Source -> Destination | Public ANY | Public ANY | |
| <u>Generalization</u> Source -> Destination | Public UVP | Public ANY | |
| <u>Generalization</u> Source -> Destination | Public CS | Public ANY | |
| <u>Generalization</u> Source -> Destination | Public GLIST | Public ANY | |
| <u>Generalization</u> Source -> Destination | Public TEL | Public ANY | |
| <u>Generalization</u> Source -> Destination | Public BL | Public ANY | |
| <u>Generalization</u> Source -> Destination | Public QTY | Public ANY | |
| <u>Generalization</u> Source -> Destination | Public ANY | Public HXIT | |
| <u>Generalization</u> Source -> Destination | Public COLL | Public ANY | |
| <u>Generalization</u> Source -> Destination | Public Term | Public ANY | |
| <u>Generalization</u> Source -> Destination | Public AD | Public ANY | |
| <u>NoteLink</u> | Public ANY | Public Note | |
| <u>Generalization</u> Source -> Destination | Public SLIST | Public ANY | |

| Connector | Source | Target | Notes |
|--|----------------|---------------|-------|
| Generalization Source -> Destination | Public ED | Public ANY | |
| Generalization Source -> Destination | Public EN | Public ANY | |
| Generalization Source -> Destination | Public QSET | Public ANY | |
| Generalization Source -> Destination | Public NPPD | Public ANY | |
| Generalization Source -> Destination | Public CD | Public ANY | |
| Generalization Source -> Destination | Public II | Public ANY | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|--|----------------------|
| nullFlavor NullFlavor Public [0..1] | Though the nullFlavor concept has some relationship with the UML/OCL null, it is not the same thing, and the relationship and differences between the two must be understood to properly implement this specification. For further discussion, see section 7.1.3 (Null and NullFlavor). Note that nullFlavor includes the concept of a UML null value, and also includes potentially fully populated instances that do not conform to the requirements placed on the instance (also known as "exceptional instances"). Both nonNull and null values SHALL always be valid according to the rules expressed in this specification. | <i>Default:</i> |
| flavorId Set(String) Public [0..1] | This property allows a sending system to identify the role that the attribute plays in processing the instance that is being represented. The principal purpose of UpdateMode is to allow a sending system to identify to a receiving system the changes that have occurred in an object controlled by the sending system; or the changes that the sender desires to be made in an object controlled by the receiving system. If no updateMode is provided, there is no information as to how this information updates any existing information. The descriptions above use the word "matching". For the purposes of data types, this means the equality operations defined in this specification (in other | <i>Default:</i> |

| Attribute | Notes | Constraints and tags |
|--|---|------------------------|
| | <p>contexts "matching" may have other meanings).</p> <p>Note that updateMode does not affect the semantics or behaviour of the data type itself, but may affect the behaviour of systems processing objects containing instances of the data type.</p> | |
| <p>updateMode UpdateMode Public</p> <p>[0..1]</p> | <p>Signals the imposition of a set of constraints on the data type. The sole purpose of specifying that a constraint that has been used to further constrain the data type is to support validation of the instance: a validation engine can look up the rules expressed for the type and confirm that the instance conforms to the rules for the flavor. No other processing should depend on the content of the flavor attribute.</p> <p>No other semantic or computational use SHALL depend on the value of this property. If this value is populated, the data type flavor SHALL be a valid constraint on the type of the value. If this value is populated, the data type flavor SHALL be a valid constraint on the type of the value.</p> | <p><i>Default:</i></p> |

Operations

| Method | Notes | Parameters |
|--|---|--------------------------|
| <p>equals() BL Public</p> | <p>By default, equals is determined as specified below. Selected specializations of ANY override equals to specify how semantic equality is evaluated for the type. Each type clearly documents how equality is determined.</p> | <p>ANY [in] x</p> |
| <p>isNull() Boolean Public</p> | <p>Defines whether this type has a nullFlavor or not.</p> <p>Note: This operation is an exception from the normal rules for operations and nullFlavors: it will return true if the value has a nullFlavor, and false if it does not.</p> | |
| <p>nonNull() Boolean Public</p> | <p>Defines whether this type doesn't have a nullFlavor or it does.</p> <p>Note: This operation is an exception from the normal rules for operations and nullFlavors: it will return false if the value has a nullFlavor, and true if it does not.</p> | |

Addresses

Type: Package

Status: Proposed. Version 1.0. Phase 1.0.
Package: LocalDatatypes
Detail: Created on 6/16/2009. Last modified on 6/16/2009
GUID: {16F741E8-111E-4072-A257-E1BE8373F6ED}

Addresses - (Logical diagram)

Created By: AbdulMalik Shakir on 6/16/2009
Last Modified: 6/16/2009
Version: 1.0. *Locked:* False
GUID: {D0F064C3-B5F8-43d7-865D-6D317231D291}

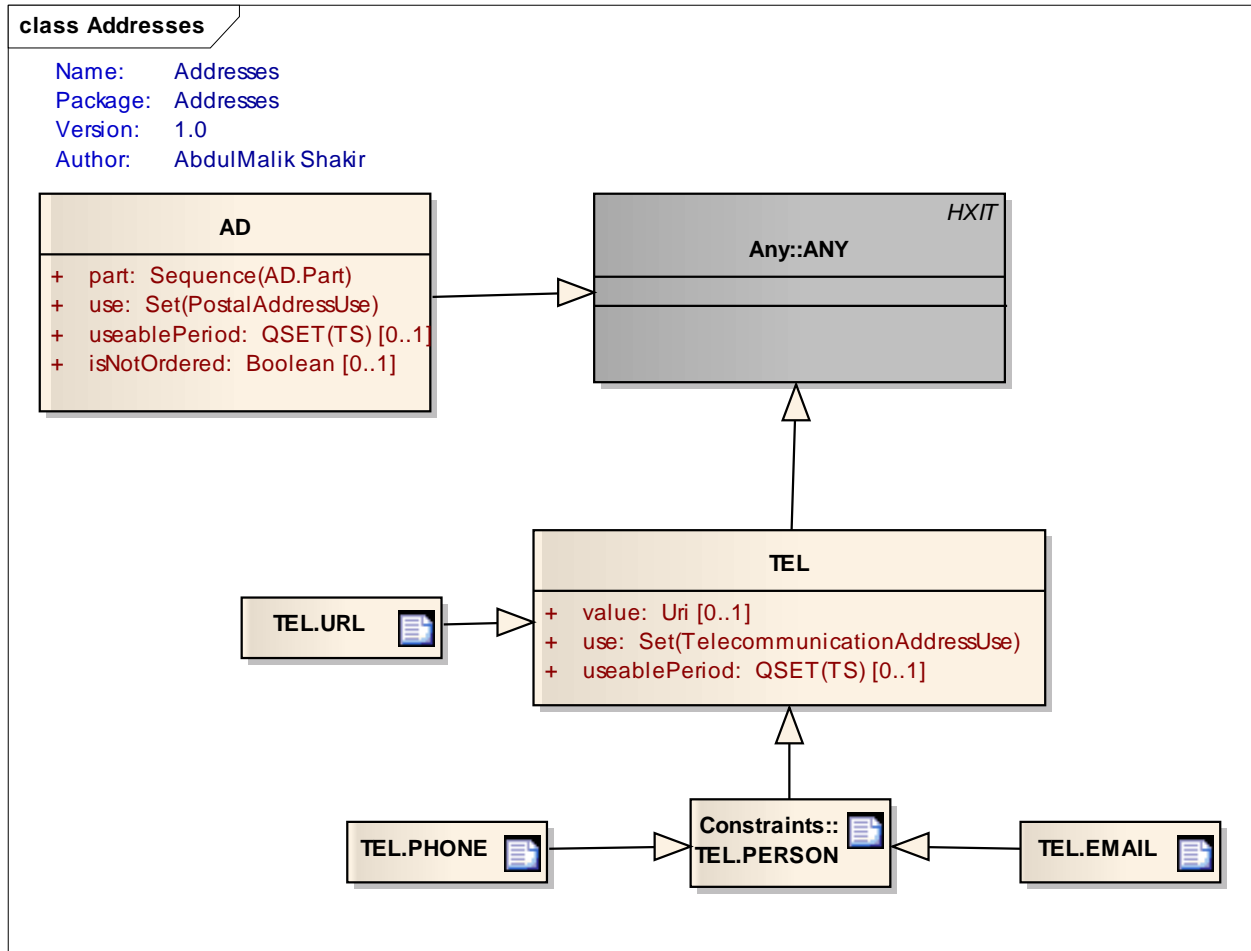


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AD

Type: **Class ANY**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Addresses *Keywords:*
Detail: Created on 7/26/2006. Last modified on 6/16/2009.
GUID: {C4FE5E76-4566-4173-B1AA-5A3B10D621E0}

Mailing and home or office addresses.

AD is primarily used to communicate data that will allow printing mail labels, or that will allow a person to physically visit that address. The postal address datatype is not supposed to be a container for additional information that might be useful for finding geographic locations (e.g., GPS coordinates) or for performing epidemiological studies. Such additional information should be captured by other, more appropriate data structures.

Addresses are essentially sequences of address parts, but add a "use" code and a valid time range for information about if and when the address can be used for a given purpose.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|--------------|----------------|-------|
| <u>NoteLink</u> | Public AD | Public Note | |
| <u>Generalization</u> Source -> Destination | Public AD | Public ANY | |
| <u>Realisation</u> Source -> Destination | Public AD | Public AD | |

Attributes

| Attribute | Notes | Constraints and tags |
|---|---|----------------------|
| part Sequence(AD.Part) Public | A sequence of address parts, such as street or post office Box, city, postal code, country, etc. | <i>Default:</i> |
| use Set(PostalAddressUse) Public | A set of codes advising a system or user which address in a set of like addresses to select for a given purpose. An address without specific use code might be a default address useful for any purpose, but an address with a specific use code would be preferred for that respective purpose. If populated, the values contained in this attribute SHALL be taken from the HL7 PostalAddressUse code system. | <i>Default:</i> |
| useablePeriod QSET(TS) Public [0..1] | A General Timing Specification (GTS) specifying the periods of time during which the address can be used. This is used to specify different addresses for different times of the week or year. | <i>Default:</i> |

| Attribute | Notes | Constraints and tags |
|---|---|----------------------|
| isNotOrdered Boolean Public [0..1] | A boolean value specifying whether the order of the address parts is known or not. While the address parts are always a sequence, the order in which they are presented may or may not be known to be true or important. Where this matters, the isNotOrdered property can be used to convey this information | <i>Default:</i> |

TEL

Type: **Class** ANY
Status: Proposed. Version 1.0. Phase 1.0.
Package: Addresses *Keywords:*
Detail: Created on 7/26/2006. Last modified on 6/16/2009.
GUID: {E03E16BF-844B-4ab7-8C6D-2E7403D461B3}

A locatable resource that is identified by a URI, such as a web page, a telephone number (voice, fax or some other resource mediated by telecommunication equipment), an e-mail address, or any other locatable resource that can be specified by a URL.

The address is specified as a Universal Resource Locator (URL) qualified by time specification and use codes that help in deciding which address to use for a given time and purpose.

Note 1: The value attribute is constrained to be a uniform resource locator specified according to IETF RFCs 1738 and 2806 when used in this data type.

Note 2: The intent of this data type is to be a locator, not an identifier; this data type is used to refer to a locatable resource using a URL, and knowing the URI allows one to locate the object. However some use cases have arisen where a URI is used to refer to a locatable resource. Though this data type allows for URIs to be used, the resource identified SHOULD always be locatable. A common use of URI's is to refer to SOAP attachments.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|----------------------|----------------|-------|
| NoteLink | Public TEL | Public Note | |
| Generalization Source -> Destination | Public TEL | Public ANY | |
| Generalization Source -> Destination | Public TEL.PERSON | Public TEL | |
| Generalization Source -> Destination | Public TEL.URL | Public TEL | |
| Realisation | Public | Public | |

| Connector | Source | Target | Notes |
|-----------------------|--------|--------|-------|
| Source -> Destination | TEL | TEL | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|----------------------|
| value Uri Public [0..1] | A uniform resource identifier specified according to IETF RFC 2396. The URI specifies the protocol and the contact point defined by that protocol for the resource. Examples: Notable uses of the telecommunication address datatype are for telephone and telefax numbers, e-mail addresses, Hypertext references, FTP references, etc. | <i>Default:</i> |
| use Set(TelecommunicationAddressUse) Public | One or more codes advising system or user which telecommunication address in a set of like addresses to select for a given telecommunication need. Note: The telecommunication use code is not a complete classification for equipment types or locations. Its main purpose is to suggest or discourage the use of a particular telecommunication address. There are no easily defined rules that govern the selection of a telecommunication address. If populated, the values contained in this attribute SHALL be taken from the HL7 TelecommunicationAddressUse code system | <i>Default:</i> |
| useablePeriod QSET(TS) Public [0..1] | Specifies the periods of time during which the telecommunication address can be used. Note: For a telephone number, this can indicate the time of day in which the party can be reached on that telephone. For a web address, it may specify a time range in which the web content is promised to be available under the given address. | <i>Default:</i> |

Operations

| Method | Notes | Parameters |
|----------------------------------|---|------------|
| canonical() TEL Public | The TEL with any separator or other non-significant characters stripped out of the address. Note: The tel: syntax allows for characters such as (and) which are syntactical separator characters but do not change the actual telephone number. canonical strips characters like these out of the address portion. The actual characters stripped out depends on the scheme. | |

TEL.EMAIL

Type: **Class** TEL.PERSON
Status: Proposed. Version 1.0. Phase 1.0.
Package: Addresses *Keywords:*
Detail: Created on 6/26/2007. Last modified on 6/16/2009.
GUID: {4086EB4E-170B-475c-98A9-14BF17988F8B}

TEL.EMAIL constrains the TEL.PERSON type to be an email address.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|---------------------|----------------------|-------|
| <u>NoteLink</u> | Public Note | Public TEL.EMAIL | |
| <u>Realisation</u> Source -> Destination | Public TEL.EMAIL | Public TEL.EMAIL | |
| <u>Generalization</u> Source -> Destination | Public TEL.EMAIL | Public TEL.PERSON | |

TEL.PHONE

Type: **Class** TEL.PERSON
Status: Proposed. Version 1.0. Phase 1.0.
Package: Addresses *Keywords:*
Detail: Created on 6/26/2007. Last modified on 6/16/2009.
GUID: {189D93EF-4CFF-4b0b-8486-7FDD776F17E6}

TEL.PHONE constrains TEL.PERSON so it must refer to some telephone based communication system with a person.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|---------------------|---------------------|-------|
| <u>NoteLink</u> | Public Note | Public TEL.PHONE | |
| <u>Realisation</u> Source -> Destination | Public TEL.PHONE | Public TEL.PHONE | |

| Connector | Source | Target | Notes |
|--|---------------------|----------------------|-------|
| Generalization Source -> Destination | Public TEL.PHONE | Public TEL.PERSON | |

TEL.URL

Type: **Class** TEL
Status: Proposed. Version 1.0. Phase 1.0.
Package: Addresses *Keywords:*
Detail: Created on 6/26/2007. Last modified on 6/16/2009.
GUID: {BC31AD66-1D75-457b-84F2-ED55EF863BAE}

TEL.URL constrains TEL so that it must point to a locatable resource that returns binary content.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|-------------------|-------------------|-------|
| NoteLink | Public Note | Public TEL.URL | |
| Generalization Source -> Destination | Public TEL.URL | Public TEL | |
| Realisation Source -> Destination | Public TEL.URL | Public TEL.URL | |

Identifiers

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: LocalDatatypes
Detail: Created on 6/16/2009. Last modified on 6/16/2009
GUID: {BEC56732-E7B2-4a94-94D4-C086586E3988}

Identifiers - (Logical diagram)

Created By: AbdulMalik Shakir on 6/16/2009
Last Modified: 6/16/2009
Version: 1.0. *Locked:* False
GUID: {B1B71B29-1E65-43e0-825A-0CBEAFC1B4E3}

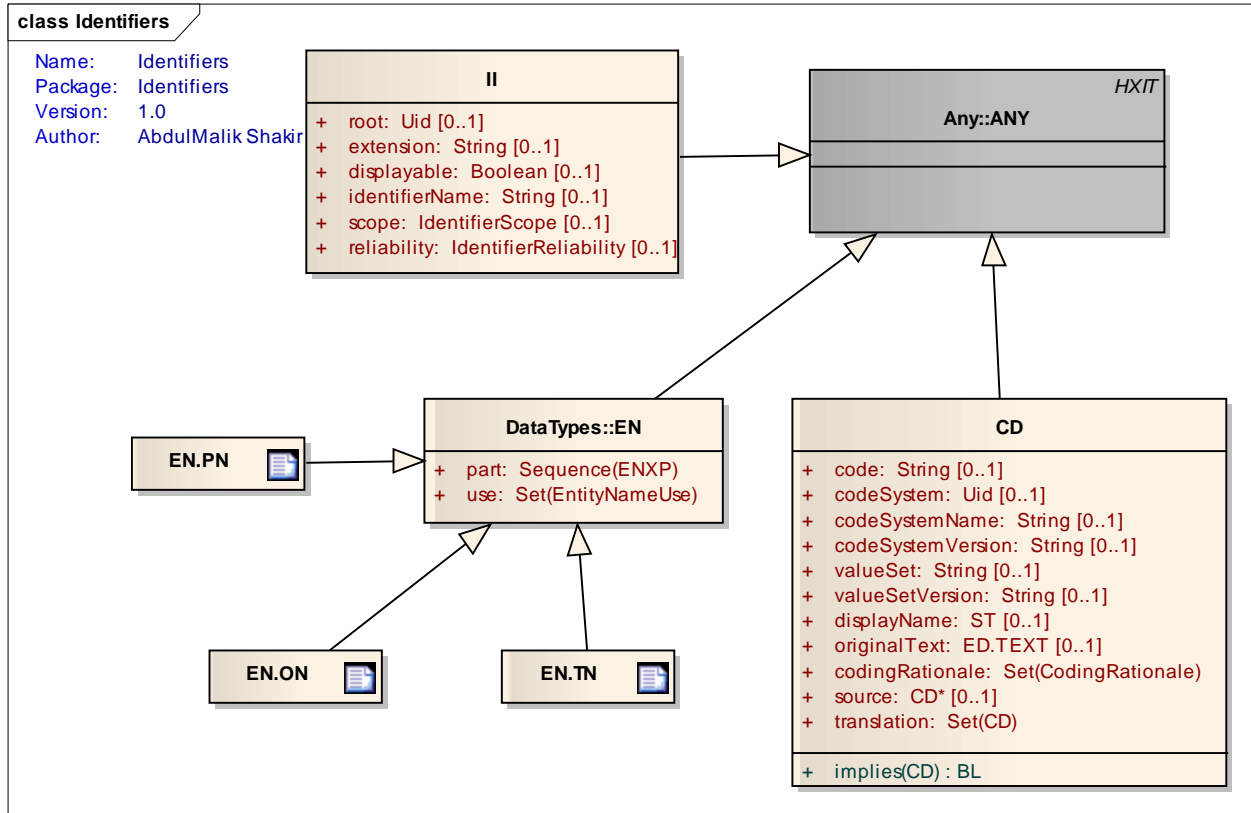


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CD

Type: Class ANY
Status: Proposed. Version 1.0. Phase 1.0.
Package: Identifiers *Keywords:*
Detail: Created on 2/7/2008. Last modified on 6/16/2009.
GUID: {73926D92-AFCD-4e73-A103-110836AD712E}

A CD may contain a simple code - that is, a reference to a concept defined directly by the referenced code system, or it may contain an expression in some syntax defined by the referenced code system that can be meaningfully evaluated. e.g., the concept of a "left foot" as a postcoordinated term built from the primary code "FOOT" and the qualifier "LEFT".

A CD may also contain an original text or phrase that served as the basis of the coding. This is preserved to allow for validation of the representation of the concept in various fashions. If the concept (the intent of the original text) cannot be properly represented, then the nullFlavor of the CD should be set to "OTH" (other) and either a reference to a code system or a value set (which may refer to multiple code systems) SHALL be provided.

A CD can contain one or more translations into multiple coding systems. The translations are all representations of the same concept in various code systems. There is only one concept, and only the first CD may contain an original text. It is possible to represent the translation chain - which CD was translated from which - if desired. Each CD may also carry a rationale to indicate why it is represented.

A CD with no nullFlavor attribute SHALL have a code attribute or nonNull originalText attribute. A CD that has a code, codeSystem or originalText attribute but does not meet external constraints on the codeSystem SHALL have a nullFlavor attribute with a value of "OTH".

Attributes with type CD are generally bound by externally specified constraints which constrain the coded concepts to which a CD may refer. These constraints may be qualified as "extensible" (CWE) or "not extensible" (CNE). If the constraint is not extensible (CNE), then a the CD that does not have a nullFlavor SHALL contain a code that

conforms to the constraint. If the constraint is extensible (CWE) then a CD that does not have a nullFlavor SHALL contain either a code that exists in the domain with which the attribute is associated, a code from a locally defined code system, or just some originalText that describes the concept. If the code is taken from a locally defined code system, then the codeSystem property SHALL specify the local code system. For both CNE and CWE constraint types, the translations may contain nonNull codes from any source unless otherwise specified by the constraining model.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|-----------------|---------------|-------|
| <u>NoteLink</u> | Public Note | Public CD | |
| <u>Generalization</u> Source -> Destination | Public CD.CV | Public CD | |
| <u>Generalization</u> Source -> Destination | Public CD.CV | Public CD | |
| <u>Generalization</u> Source -> Destination | Public CD | Public ANY | |
| <u>Realisation</u> Source -> Destination | Public CD | Public CD | |
| <u>Generalization</u> Source -> Destination | Public PQR | Public CD | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|--|----------------------|
| code String Public [0..1] | The plain code symbol defined by the code system, or an expression in a syntax defined by the code system which describes the concept. If a code is provided, it SHALL be an exact match to a plain code symbol or expression defined by the code system. If the code system defines a code or expression that includes whitespace, the code SHALL include the whitespace. An expression can only be used where the codeSystem either defines an expression syntax, or there is a generally accepted syntax for the codeSystem. A code system may be defined that only defines an expression syntax with bindings to other code Systems for the elements of the expression. It is at the discretion of the interpreting system whether to check for an expression instead of a | <i>Default:</i> |

| Attribute | Notes | Constraints and tags |
|--|--|------------------------|
| | <p>simple code and evaluate the expression instead of treating the expression as a code. In some cases, it may be unclear or ambiguous whether the code represents a single symbol or an expression. This usually arises where the code system defines an expression language and then defines pre-coordinated concepts with symbols which match their expression, e.g. UCUM. In other cases, it is safe to treat the expression as a symbol. There is no guarantee that this is always safe: the definitions of the codeSystem should always be consulted to determine how to handle potential expressions.</p> | |
| <p>codeSystem Uid Public</p> <p>[0..1]</p> | <p>Specifies the code system that defines the code, or if no code was found, the codeSystem in which no code was found.</p> <p>Code systems SHALL be referred to by a UID, which allows unambiguous reference to standard code systems and other local codesystems. Where either ISO or HL7 have assigned UID to code Systems, then these UIDs SHALL be used. Otherwise implementations SHALL use an appropriate ISO Object Identifier (OID) or UUID to construct a globally unique local coding system identifier. A CD that has a code attributes SHALL have a codeSystem specifying the system of concepts that defines the code.</p> <p>An CD with a nullFlavor OTH indicates that a concept could not be coded in the coding system or value set specified. Thus, for these coding exceptions, the code system or value set that did not contain the appropriate concept SHALL be provided in codeSystem or valueSet.</p> | <p><i>Default:</i></p> |
| <p>codeSystemName String Public</p> <p>[0..1]</p> | <p>The common name of the coding system.</p> <p>The code system name has no computational value. codeSystemName can never modify the meaning of codeSystem and cannot exist without codeSystem.</p> <p>Note: The purpose of a code system name is to assist an unaided human interpreter of a code value to interpret codeSystem.</p> <p>Information Processing Entities claiming direct or indirect conformance SHALL NOT functionally rely on codeSystemName. In addition, they MAY choose not to implement codeSystemName but SHALL NOT reject instances because codeSystemName is present.</p> | <p><i>Default:</i></p> |

| Attribute | Notes | Constraints and tags |
|---|--|------------------------|
| <p>codeSystemVersion String Public</p> <p>[0..1]</p> | <p>If applicable, a version descriptor defined specifically for the given code system.</p> <p>Note: Different versions of one code system must be compatible. By definition a code symbol SHALL have the same meaning throughout all versions of a code system.</p> <p>Between versions, codes may be retired but not withdrawn or reused. Where the definition of the meaning of a code symbol changes, it must still be compatible (equal) between different code system versions.</p> <p>Whenever a code system changes in an incompatible way, it will constitute a new code system, not simply a different version, regardless of how the vocabulary publisher calls it. For example, the publisher of ICD-9 and ICD-10 calls these code systems, "revision 9" and "revision 10" respectively. However, ICD-10 is a complete redesign of the ICD code, not a backward compatible version. Therefore, for the purpose of this data type specification, ICD-9 and ICD-10 are different code systems, not just different versions. By contrast, when LOINC updates from revision "1.0j" to "1.0k", this would be considered as just another version of LOINC, since LOINC revisions are backwards compatible.</p> | <p><i>Default:</i></p> |
| <p>valueSet String Public</p> <p>[0..1]</p> | <p>Specifies the valueSet in which no code was found.</p> <p>Value sets shall be referred to by an identifier name which allows unambiguous reference to a value set. Where either ISO or HL7 have assigned an identifying name to a value set, then that name shall be used.</p> <p>In many cases, a CD is created from a value set - either a code/code system pair is chosen from a valueSet, or one is not chosen and the CD has the exceptional value of NullFlavor.OTH. If no code is chosen, it is generally inappropriate to reference the code system from which the code was chosen as the value set may not match the code system (may include a subset of the codeSystem, or additional terms from other code systems); instead, the value set should be provided. In addition, there are some known use cases where the value set that a user or system was offered when choosing a code affects the interpretation of the code.</p> <p>Note that if a code is provided, the meaning of the code must come from the definition of the code in the code system. The meaning of the code SHALL NOT depend on the value set.</p> <p>Information Processing Entities claiming direct or indirect conformance SHALL NOT be</p> | <p><i>Default:</i></p> |

| Attribute | Notes | Constraints and tags |
|---|--|------------------------|
| | <p>required to interpret the code in light of the valueSet, and they SHALL NOT reject an instance because of the presence or absence of any or a particular value set.</p> | |
| <p>valueSetVersion String Public [0..1]</p> | <p>Specifies the version of the valueSet in which no code was found. valueSetVersion SHALL be provided when a valueSet is provided, and otherwise SHALL be null. The valueSet version specifies a date, with the resolution of a particular second, using the format defined for TS.DATETIME.FULL. The date is the date/time that the value set being used was published.</p> | <p><i>Default:</i></p> |
| <p>displayName ST Public [0..1]</p> | <p>A name or title for the code, under which the sending system shows the code value to its users. If populated, the displayName SHALL be a valid human readable representation of the concept as defined by the code system at the time of data entry. The displayName SHALL conform to any rules defined by the codingSystem; if the codeSystem does not define a human representation for the code or expression, then none can be provided. displayName is included both as a courtesy to an unaided human interpreter of a code value and as a documentation of the name used to display the concept to the user. The display name has no functional meaning; it SHALL never exist without a code; and it SHALL never modify the meaning of the code. A display name may not be present if the code is an expression for which no display name has been assigned or can be derived. Information Processing Entities claiming direct or indirect conformance MAY choose not to implement displayName but SHALL NOT reject instances because displayName is present. Note: Display names may not alter the meaning of the code value. Therefore, display names SHOULD NOT be presented to the user on a receiving application system without ascertaining that the display name adequately represents the concept referred to by the code value. Communication SHALL NOT simply rely on the display name. The display name's main purpose is to support implementation debugging.</p> | <p><i>Default:</i></p> |

| Attribute | Notes | Constraints and tags |
|---|---|------------------------|
| <p>originalText ED.TEXT Public</p> <p>[0..1]</p> | <p>The text as seen and/or selected by the user who entered the data.</p> <p>Original text can be used in a structured user interface to capture what the user saw as a representation of the code on the data input screen, or in a situation where the user dictates or directly enters text, it is the text entered or uttered by the user.</p> <p>It is valid to use the CD data type to store only the text that the user entered or uttered. In this situation, original text will exist without a code. In a situation where the code is assigned sometime after the text was entered, originalText is the text or phrase used as the basis for assigning the code.</p> <p>Notes</p> <ul style="list-style-type: none"> • The details of the link in the originalText.reference between different artifacts of medical information (e.g., document and coded result) is outside the scope of this specification and may be further proscribed in specifications that use this specification. • The original text SHALL be an excerpt of the relevant information in the original sources, rather than a pointer or exact reproduction. Thus the original text SHALL be represented in plain text form. In specific circumstances, when clearly described the context of use, the originalText may be a reference to some other text artefact for which the resolution scope is clearly described. • Values of type CD MAY have a original text despite not having a code. Any CD value with no code signifies a coding exception. In this case, originalText is a name or description of the concept that was not coded. Such CD values MAY also contain translations. • Translations directly encode the concept described in originalText. The originalText represents the originalText of the concept itself. Translations SHALL NOT have an originalText of their own. | <p><i>Default:</i></p> |
| <p>codingRationale Set(CodingRationale) Public</p> | <p>provides a reason why a particular CD has been provided, either as the root concept or as one of the translations.</p> <p>If populated, the values contained in this attribute SHALL be taken from the HL7 CodingRationale code system.</p> | <p><i>Default:</i></p> |

| Attribute | Notes | Constraints and tags |
|--|--|------------------------|
| <p>source CD Public</p> <p>[0..1]</p> | <p>A reference to the CD that was the source of this translation, if this CD was created by translating it from another CD. This property is a reference, and if used, must be a reference to a CD within the same cluster of CDs that represent the same concept. Specifically, the source SHALL be provided within the scope of this CD's root CD and translations.</p> <p>A CD consists of a single root code and a set of translations, which do not have translations. Using the codingRationale property, a sender can indicate which is the original code. There are some circumstances in which it is useful to know which CD was translation from which CD. The source allows for the translation sequence from one translation to another to be represented. Each element of the translation set was translated from the original CD. Each translation may, however, also have further translations. Thus, when a code is translated multiple times the information about which code served as the input to which translation will be preserved.</p> | <p><i>Default:</i></p> |
| <p>translation Set(CD) Public</p> | <p>A set of other CDs that each represent a translation of this CD into equivalent codes within the same code system or into corresponding concepts from other code systems.</p> <p>NOTE: The translations are quasi-synonyms of one real-world concept. Every translation in the set is supposed to express the same meaning "in other words." However, exact synonymy rarely exists between two structurally different coding systems. For this reason, not all of the translations will be equally exact.</p> <p>Translations SHALL NOT contain translations. The root CD has one set of translations which lists all the translations. The root translation is generally the one that best meets the conformance criteria for the CD. No implication about lineage of the translations can be drawn from the selection of the root code. Instead the properties codingRationale and source is used to trace lineage.</p> <p>In the absence of a constraining model that makes constraints on the value domain of the CD, any of the translations MAY be the root CD. If the constraining model makes constraints on the value domain of the CD and there is a translation that meets the constraints, that translation SHOULD be the root CD. If the constraining model makes constraints on the value domain of the CD and there is no translation that meets the constraints, then any</p> | <p><i>Default:</i></p> |

| Attribute | Notes | Constraints and tags |
|-----------|--|----------------------|
| | of the translations MAY be the root, as long as they are assigned a nullFlavor. An alternative is to put none of the translations in the root, and give it a nullFlavor of choice, and put all the translations in the translation property of the root. | |

Operations

| Method | Notes | Parameters |
|-------------------------------|---|---------------|
| implies() BL Public | True if this code/codeSystem is a specialization of the other code/codeSystem or has the same meaning. Note: in SNOMED, for example, two isomorphic forms of the same expression will imply each other. Note: A terminology service may be used to make this determination. | CD [in] other |

EN.ON

Type: **Class** **EN**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Identifiers *Keywords:*
Detail: Created on 7/26/2006. Last modified on 6/16/2009.
GUID: {47FF99A7-062D-46d2-AF7E-D9A6A0CA9857}

Organization Name

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|-----------------|----------------|-------|
| NoteLink | Public EN.ON | Public Note | |
| Generalization Source -> Destination | Public EN.ON | Public EN | |
| Realisation implements Source -> Destination | Public EN.ON | Public ON | |

EN.PN

Type: **Class** **EN**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Identifiers *Keywords:*
Detail: Created on 7/26/2006. Last modified on 6/16/2009.
GUID: {F37562F7-9A00-44c5-B662-2A647E7E0EC4}

A restriction of EN used when the named Entity is a Person. A sequence of name parts, such as given name or family name, prefix, suffix, etc.

A name part is a restriction on entity name part that only allows those entity name parts qualifiers applicable to person names.

Note: Since the structure of entity name is mostly determined by the requirements of person name, the restriction is very minor.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|-----------------|----------------|-------|
| NoteLink | Public EN.PN | Public Note | |
| Generalization Source -> Destination | Public EN.PN | Public EN | |
| Realisation implements Source -> Destination | Public EN.PN | Public PN | |

EN.TN

Type: **Class** **EN**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Identifiers *Keywords:*
Detail: Created on 7/26/2006. Last modified on 6/16/2009.
GUID: {AE5D8B14-2901-4d50-9777-3A3951185A54}

A restriction of EN that is effectively a simple string used for a simple name for things and places. Trivial names are typically used for places and things, such as Lake Erie or Washington-Reagan National Airport.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|-----------------|--------|--------|-------|
| NoteLink | Public | Public | |

| Connector | Source | Target | Notes |
|--|-----------------|--------------|-------|
| | EN.TN | Note | |
| Generalization Source -> Destination | Public EN.TN | Public EN | |
| Realisation implements Source -> Destination | Public EN.TN | Public TN | |

II

Type: **Class** **ANY**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Identifiers **Keywords:**
Detail: Created on 7/26/2006. Last modified on 6/16/2009.
GUID: {50052448-D9F8-45c4-863E-9B9F679A1392}

An identifier that uniquely identifies a thing or object.

Examples are object identifier for HL7 RIM objects, medical record number, order id, service catalog item id, Vehicle Identification Number (VIN), etc. Instance identifiers are defined based on ISO object identifiers.

An identifier allows someone to select one record, object or thing from a set of candidates. Usually an identifier alone without any context is not usable. Identifiers are distinguished from concept descriptors as concept descriptors never identify an individual thing, although there may sometimes be an individual record or object that represents the concept.

Information Processing Entities claiming direct or indirect conformance SHALL never assume that receiving applications can infer the identity of issuing authority or the type of the identifier from the identifier or components thereof.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|--------------|----------------|-------|
| NoteLink | Public II | Public Note | |
| Realisation Source -> Destination | Public II | Public II | |
| Generalization Source -> Destination | Public II | Public ANY | |

Attributes

| Attribute | Notes | Constraints and tags |
|-----------|-------|----------------------|
|-----------|-------|----------------------|

| Attribute | Notes | Constraints and tags |
|--|---|------------------------|
| <p>root Uid Public</p> <p>[0..1]</p> | <p>A unique identifier that guarantees the global uniqueness of the instance identifier.</p> <p>In the presence of a non-null extension, the root is the unique identifier for the "namespace" of the identifier in the extension. Note that this does NOT necessarily correlate with the organization that manages the issuing of the identifiers. A given organization may manage multiple identifier namespaces, and control over a given namespace may transfer from organization to organization over time while the root remains the same.</p> <p>This field can be either a DCE UUID, an Object Identifier (OID), or a special identifier taken from lists that may be published by ISO or HL7.</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Comparison of root values is always case sensitive. UUID's SHALL be represented in upper case, so UUID case should always be preserved. 2. The root should not be used to carry semantic meaning – all it does is ensure global computational uniqueness | <p><i>Default:</i></p> |
| <p>extension String Public</p> <p>[0..1]</p> | <p>A character string as a unique identifier within the scope of the identifier root.</p> <p>The root and extension scheme means that the concatenation of root and extension SHALL be a globally unique identifier for the item that this II value identifies.</p> <p>Some identifier schemes define certain style options to their code values. For example, the U.S. Social Security Number (SSN) is normally written with dashes that group the digits into a pattern "123-12-1234". However, the dashes are not meaningful and a SSN can also be represented as "123121234" without the dashes. In the case where identifier schemes provide for multiple representations, HL7 or ISO may make a ruling about which is the preferred form and document that ruling where that respective external identifier scheme is recognized.</p> | <p><i>Default:</i></p> |
| <p>displayable Boolean Public</p> <p>[0..1]</p> | <p>Specifies if the identifier is intended for human display and data entry (displayable = true) as opposed to pure machine interoperation (displayable = false).</p> <p>Information Processing Entities claiming direct or indirect conformance MAY choose not to implement displayable but SHALL NOT reject instances because displayable is present.</p> | <p><i>Default:</i></p> |

| Attribute | Notes | Constraints and tags |
|--|--|------------------------|
| <p>identifierName String Public</p> <p>[0..1]</p> | <p>This is a human-readable name for the namespace represented in the root. Note: It is a descriptive name for the actual namespace. e.g. "California, U.S. Driver's License Number, 1970-". IdentifierName does NOT refer to the organization which issued the identifier (e.g. California Dept. of Motor Vehicles). It is intended for use as a human readable label when an identifier must be displayed to a human user where an OID would not be meaningful.</p> <p>Notes:</p> <ol style="list-style-type: none"> In general, it should only be used when an extension is present, allowing for a display such as "California, U.S. Driver's License Number, 1970-: 123456789". There are absolutely no guidelines for the contents of this text other than it should be completely descriptive of the namespace. E.g. "Driver's License" or even "California Driver's License" would not be ideal. However, formatting, capitalization, whitespace, language, etc. are completely up to the sender. The Identifier Name has no computational value. IdentifierName can never modify the meaning of the root attribute. The purpose of the Identifier Name is to assist an unaided human interpreter of an II value to interpret the authority. Applications SHALL NOT attempt to perform any decision-making, matching, filtering or other processing based on the presence or value of this property. It is for display and development assistance only. All decision logic MUST be based solely on the root and extension properties. Information Processing Entities claiming direct or indirect conformance MAY choose not to implement identifierName but SHALL NOT reject instances because identifierName is present. | <p><i>Default:</i></p> |
| <p>scope IdentifierScope Public</p> <p>[0..1]</p> | <p>Specifies the scope in which the identifier applies to the object with which it is associated. If populated, the value of this attribute SHALL be taken from the HL7 IdentifierScope code system</p> | <p><i>Default:</i></p> |

| Attribute | Notes | Constraints and tags |
|---|---|----------------------|
| reliability IdentifierReliability Public [0..1] | Specifies the reliability with which this identifier is known. This attribute may be used to assist with identifier matching algorithms. If populated, the value of this attribute SHALL be taken from the HL7 IdentifierReliability code system. | <i>Default:</i> |

Logicals

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: LocalDatatypes
Detail: Created on 6/16/2009. Last modified on 6/16/2009
GUID: {E8A41585-61B7-41a5-AE1D-CEB22C0F9DA5}

Logicals - (Logical diagram)

Created By: AbdulMalik Shakir on 6/16/2009
Last Modified: 6/16/2009
Version: 1.0. *Locked:* False
GUID: {E98356BA-3DEB-4469-BE3B-65E1716BE714}

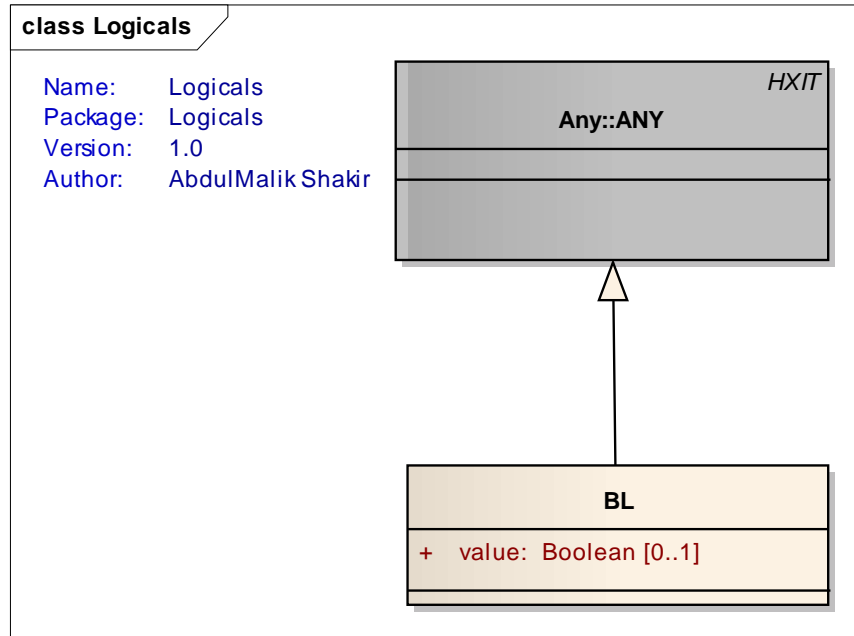


Figure: 54

BL

Type: **Class ANY**

Status: Proposed. Version 1.0. Phase 1.0.
Package: Logicals *Keywords:*
Detail: Created on 7/26/2006. Last modified on 6/16/2009.
GUID: {A21E8348-A3E7-4cf7-A87C-FB0F18D673D7}

BL stands for the values of two-valued logic. A BL value can be either true or false, or may have a nullFlavor.

Constraints

- no value if null: (*Invariant, Status is Approved*)
 inv "no value if null": isNotNull implies value.ocUndefinedoclIsDefined

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|----------------------|----------------|-------|
| <u>Generalization</u> Source -> Destination | Public BL | Public ANY | |
| <u>NoteLink</u> | Public BL | Public Note | |
| <u>Generalization</u> Source -> Destination | Public BL.NONNULL | Public BL | |
| <u>Realisation</u> Source -> Destination | Public BL | Public BL | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|------------------------------------|----------------------|
| value Boolean Public [0..1] | value of the BL if it is non Null. | <i>Default:</i> |

Operations

| Method | Notes | Parameters |
|---------------------------|--|----------------------|
| and() BL Public | True if both this and other are true values are true. False if either value is false. Null otherwise. | BL [in] other |
| not() BL Public | False if this true, true if this is false. Null otherwise True if this is false and true if this is | |

| Method | Notes | Parameters |
|-------------------------------|--|----------------------|
| | <p>false.</p> <p>Note: These operations does conform to the general rules for operations and nullFlavors do not always conform to the general rules for nullFlavors and operations due to the special nature of these logical operations. For example. Null or True is true, because it does not matter whether the null value might actually be true or false, the result will be the same. Also note, from an implementers point of view, that these operations are strictly symmetric, and this may require some special case handling to prevent implementation errors when performing operations on null objects.</p> | |
| or() BL Public | True if either this and or other are true. False if both values are false. Null Otherwise | BL [in] other |
| xor() BL Public | True if either this and other are true, but not both. different and not null. False if both this and other have the same value. Null otherwise. | BL [in] other |
| implies() BL Public | True if either this is false, or if this and other are true. False if this this is true and other is false. Null otherwise | BL [in] other |

Quantities

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: LocalDatatypes
Detail: Created on 6/16/2009. Last modified on 6/16/2009
GUID: {9889CD43-7C8A-40ef-81AC-1DA0C41E8FF3}

Quantities - (Logical diagram)

Created By: AbdulMalik Shakir on 6/16/2009
Last Modified: 6/16/2009
Version: 1.0. **Locked:** False
GUID: {ED48997D-82EA-4bb6-9B1D-5E51BF02C5E5}

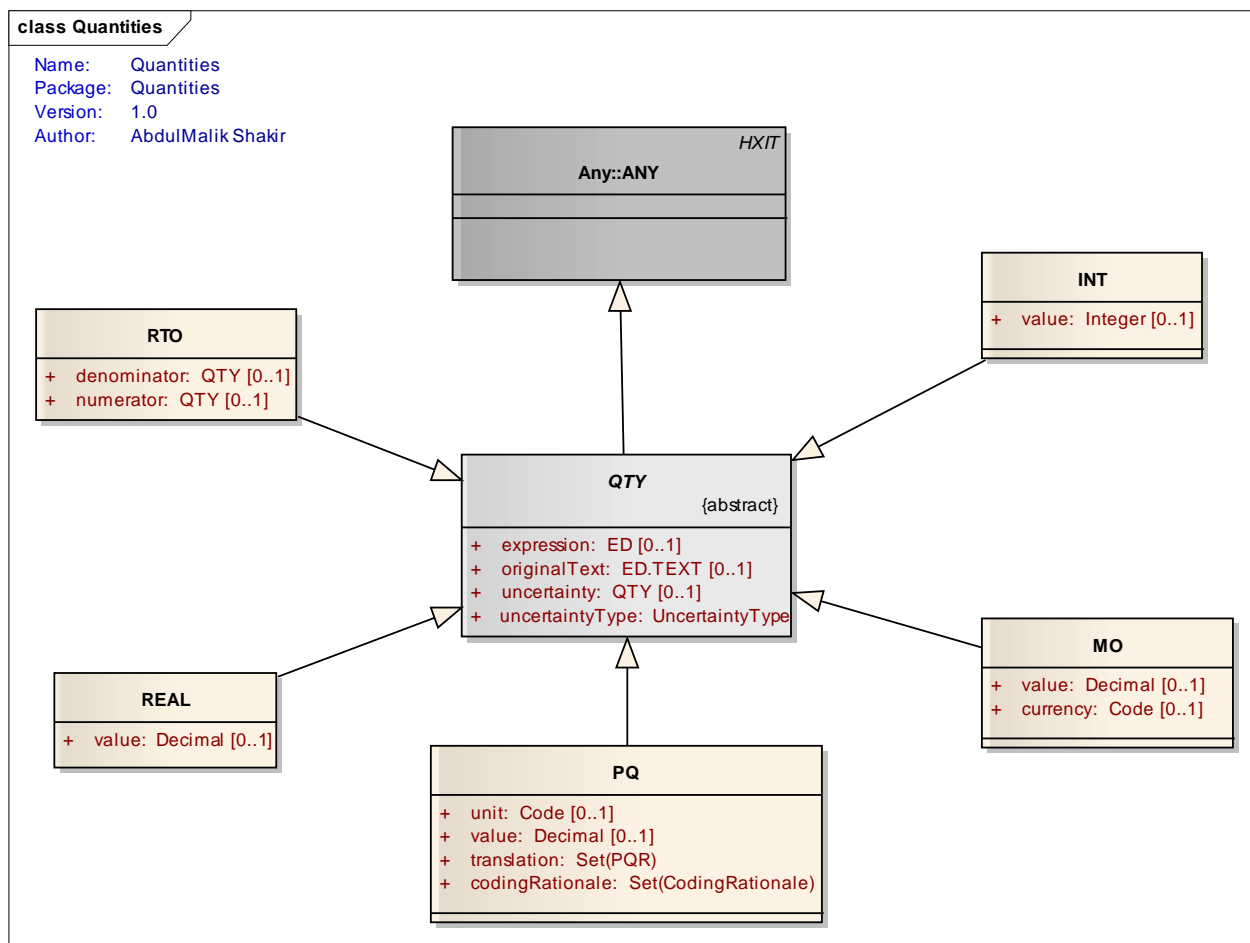


Figure: 55

INT

Type: Class **QTY**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Quantities **Keywords:**
Detail: Created on 7/26/2006. Last modified on 6/16/2009.
GUID: {F9CBEED5-6538-404a-9F92-F3546E4B16E2}

Integer numbers (-1,0,1,2, 100, 3398129, etc.) are precise numbers that are results of counting and enumerating. Integer numbers are discrete, the set of integers is infinite but countable. No arbitrary limit is imposed on the range of integer numbers.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|-----------|--------|--------|-------|
| NoteLink | Public | Public | |

| Connector | Source | Target | Notes |
|--|----------------------|---------------|-------|
| | INT | Note | |
| Generalization Source -> Destination | Public INT.NONNEG | Public INT | |
| Realisation Source -> Destination | Public INT | Public INT | |
| Generalization Source -> Destination | Public INT | Public QTY | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|----------------------|
| value Integer Public [0..1] | The value of the INT if not null. Note that this specification imposes no limitations on the size of integer, but most implementations will map this to a 32 or 64 bit integer. | <i>Default:</i> |

Operations

| Method | Notes | Parameters |
|-----------------------------|--|-----------------------|
| + () INT Public | The value of the addition of this and other. | INT [in] other |
| - () INT Public | The value of the subtraction of other from this. | INT [in] other |
| - () INT Public | The negative value of this. | |
| * () INT Public | The value of the multiplication of this and other | INT [in] other |
| / () REAL Public | The value of this divided by other. If other is 0, then the result is nullFlavor NI. | INT [in] other |
| / () REAL Public | The value of this divided by other. If other is 0, then the result is nullFlavor NI. | REAL [in] x |
| abs () INT Public | The absolute value of this. | |
| div () INT Public | The number of times that other fits completely within this | INT [in] other |
| mod () INT Public | The result is this modulo other | INT [in] other |
| max () INT Public | The maximum of this and other | INT [in] other |

| Method | Notes | Parameters |
|--------------------------------|--|-----------------------|
| min() INT Public | The minimum of this and other | INT [in] other |
| compares() BL Public | Integer values may always be compared. | QTY [in] other |

MO

Type: **Class** **QTY**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Quantities *Keywords:*
Detail: Created on 7/26/2006. Last modified on 6/16/2009.
GUID: {029872B8-87A7-4810-86D7-5681370F1137}

A MO is a quantity expressing the amount of money in some currency. Currencies are the units in which monetary amounts are denominated in different economic regions. While the monetary amount is a single kind of quantity (money) the exchange rates between the different units are variable. This is the principle difference between PQ and MO, and the reason why currency units are not physical units.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|--------------|----------------|-------|
| Generalization Source -> Destination | Public MO | Public QTY | |
| Realisation Source -> Destination | Public MO | Public MO | |
| NoteLink | Public MO | Public Note | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|----------------------|
| value Decimal Public [0..1] | The value of the MO if non Null. MO values are usually precise to 0.01 (one cent, penny, paisa, etc.) For large amounts, it is important not to store MO values in floating point registers, since this may lose precision. | <i>Default:</i> |

| Attribute | Notes | Constraints and tags |
|--|--|----------------------|
| currency Code Public [0..1] | The currency unit as defined in ISO 4217 | <i>Default:</i> |

Operations

| Method | Notes | Parameters |
|----------------------------------|--|------------------------|
| +() MO Public | The value of the addition of this and other; if the currencies do not match, null (NullFlavor NI). | MO [in] other |
| -() MO Public | The value of the subtraction of other from this; if the currencies do not match, null (NullFlavor NI). | MO [in] other |
| *() MO Public | The value of the multiplication of this by other | REAL [in] other |
| / () MO Public | The value of this divided by other. If other is 0, then the result is nullFlavor NI. | REAL [in] other |
| max () MO Public | The maximum of this and other | MO [in] other |
| min () MO Public | The minimum of this and other | MO [in] other |
| compares () BL Public | This and other can be compared if their currencies are the same. | QTY [in] other |

PQ

Type: **Class** **QTY**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Quantities *Keywords:*
Detail: Created on 7/26/2006. Last modified on 6/16/2009.
GUID: {C8497093-140E-4335-8ACE-4D18BFA4A87F}

A dimensioned quantity expressing the result of measuring

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|-------------------|----------------|-------|
| NoteLink | Public PQ | Public Note | |
| Realisation Source -> Destination | Public PQ | Public PQ | |
| Generalization Source -> Destination | Public PQ.TIME | Public PQ | |
| Generalization Source -> Destination | Public PQ | Public QTY | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|----------------------|
| unit Code Public [0..1] | The unit of measure specified in the Unified Code for Units of Measure (UCUM). UCUM defines two forms of expression, case sensitive and case insensitive. PQ uses the case sensitive codes. The codeSystem OID for the case sensitive form is 2.16.840.1.113883.6.8. The default value for unit is the UCUM code "1" (unity). Equality of physical quantities does not require the values and units to be equal independently. Value and unit is only how we represent physical quantities. For example, 1 m equals 100 cm. Although the units are different and the values are different, the physical quantities are equal. Therefore one should never expect a particular unit for a physical quantity but instead allow for automated conversion between different comparable units. | <i>Default:</i> |
| value Decimal Public [0..1] | the number which is multiplied by the unit to make the PQ or PQR value if non Null. Note This specification imposes no limitations on the size or precision of REAL, but most implementations will map this to a 8 ? 12 byte Real. | <i>Default:</i> |
| translation Set(PQR) Public | An alternative representation of the same physical quantity expressed in a different unit from a different unit code system and possibly with a different value. | <i>Default:</i> |

| Attribute | Notes | Constraints and tags |
|--|---|----------------------|
| codingRationale Set(CodingRationale) Public | The reason that this PQ or PQR was provided. More than one reason may be given. For possible values, see 7.5.1.4.10 CD.codingRationale. | <i>Default:</i> |

Operations

| Method | Notes | Parameters |
|---------------------------------------|---|------------------------|
| canonical() PQ Public | The value converted to the form with canonical units. UCUM provides more information about canonical units | |
| compares() BL Public | This and other can be compared if the units of the canonical forms are the same. | QTY [in] other |
| inverted() PQ Public | The inverted value of the PQ. Both value and unit must be inverted. | |
| -() PQ Public | The negative value of this | |
| + PQ Public | The value of the addition of this and other; if the units do not match, null (NullFlavor NI). | PQ [in] other |
| - PQ Public | The value of the subtraction of other from this; if the units do not match, null (NullFlavor NI). | PQ [in] other |
| * PQ Public | The value of the multiplication of this and other with appropriate changes to the units. | PQ [in] other |
| * PQ Public | The value of the multiplication of this and other | REAL [in] other |
| / PQ Public | The value of this divided by other with appropriate changes to the units. If other is 0, then the result is nullFlavor NI | PQ [in] other |
| / PQ Public | The value of this divided by other. If other is 0, then the result is nullFlavor NI. | REAL [in] other |
| abs() PQ Public | The absolute value of this | |
| max() PQ Public | The maximum of this and other; if the units do not match, null (NullFlavor NI). | PQ [in] other |
| min() PQ Public | The minimum of this and other; if the units do not match, null (NullFlavor NI). | PQ [in] other |
| toInterval() IVL(PQ) Public | Converts this value to an interval that expresses the range covered by the precision of the value | |

QTY

Type: **Class** ANY
Status: Proposed. Version 1.0. Phase 1.0.
Package: Quantities *Keywords:*
Detail: Created on 7/26/2006. Last modified on 6/16/2009.
GUID: {BEA0F53E-A040-4184-835C-4EC4801C0439}

The quantity datatype is an abstract generalization for all datatypes whose domain values has an order relation (less-or-equal) and where difference is defined in all of the datatype’s totally ordered value subsets.

The quantity type abstraction is needed in defining certain other types, such as the interval, and probability distributions.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|----------------|---------------|-------|
| Generalization Source -> Destination | Public QTY | Public ANY | |
| Generalization Source -> Destination | Public RTO | Public QTY | |
| Generalization Source -> Destination | Public MO | Public QTY | |
| NoteLink | Public Note | Public QTY | |
| Generalization Source -> Destination | Public REAL | Public QTY | |
| Generalization Source -> Destination | Public TS | Public QTY | |
| Dependency Source -> Destination | Public QTY | Public PPD | |
| Generalization Source -> Destination | Public URG | Public QTY | |
| Generalization Source -> Destination | Public CO | Public QTY | |
| Generalization Source -> Destination | Public PQ | Public QTY | |
| Generalization | Public | Public | |

| Connector | Source | Target | Notes |
|---|---------------|----------------|-------|
| Source -> Destination | INT | QTY | |
| Realisation Source -> Destination | Public QTY | Public QTY | |
| Realisation Source -> Destination | Public QTY | Public EXPR | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|--|----------------------|
| expression ED Public [0..1] | <p>An expression that can be used to derive the actual value of the quantity given information taken from the context of use.</p> <p>For example expression can be used for expressing dosage instructions that depend on patient body weight. Note: If no proper value is provided for the QTY, then the value SHALL have a nullFlavor, whether or not an expression is provided.</p> <p>The language of the expression is inferred from the mediatype. If multiple translations are provided in the expression, the evaluator is free to choose whichever language is preferred; all translations SHALL specify the same outcome. The language defines the forms that the expression property can take, how the information available in the context of the expression is made available within the features of the language, and how the language declares the new form of the value. Languages may only be used if this information has been appropriately defined for the context in which the QTY is used.</p> <p>Information Processing Entities are not required to implement any languages in order to claim direct or indirect conformance to this specification, but SHOULD declare what languages are supported in their conformance statements.</p> <p>Language Mediatype OCL text/plain+ocl Factor application/hl7-factor+xml MathML application/mathml+xml</p> <p>Note: Factor is an HL7 specific language documented in the Abstract Datatypes Specification.</p> | <i>Default:</i> |

| Attribute | Notes | Constraints and tags |
|--|---|------------------------|
| <p>originalText ED.TEXT Public</p> <p>[0..1]</p> | <p>The text representation from which the QTY was encoded, if such a representation is the source of the QTY.</p> <p>Original text can be used in a structured user interface to capture what the user saw as a representation of the quantity on the data input screen, or in a situation where the user dictates or directly enters text, it is the text entered or uttered by the user.</p> <p>It is valid to use a QTY derived data type to store only the text that the user entered or uttered. In this situation, originalText will exist without a valid value. In a situation where the value is determined sometime after the text was entered, originalText is the text or phrase used as the basis for determining the value. The originalText is not a substitute for a valid value. If the actual value of the QTY is not valid, then the QTY SHALL be null, irrespective of whether originalText has a value or not.</p> | <p><i>Default:</i></p> |
| <p>uncertainty QTY Public</p> <p>[0..1]</p> | <p>Specifies the uncertainty of the quantity using a distribution function and its parameters. It is the primary measure of variance/uncertainty of the value (the square root of the sum of the squares of the differences between all data points and the mean). The actual type of uncertainty depends on the type of the QTY.</p> <p>Note: uncertainty SHALL only be applied to value domains that have a continuous distribution (REAL, PQ, MO, and TS).</p> <p>Uncertainty MAY be applied to the numerator and denominator of a RTO separately.</p> <p>Uncertainty SHALL not have an expression.</p> <p>Uncertainty SHALL not have uncertainty of it's own. Uncertainty SHALL not have originalText.</p> | <p><i>Default:</i></p> |
| <p>uncertaintyType UncertaintyType Public</p> | <p>A code specifying the type of probability distribution in uncertainty.</p> <p>The NULL value (unknown) for the type code indicates that the probability distribution type is unknown. In that case, uncertainty has the meaning of an informal guess if it is populated. If populated, the value of this attribute SHALL be taken from the HL7 DistributionType code system.</p> | <p><i>Default:</i></p> |

Operations

| Method | Notes | Parameters |
|-----------------------------|---|------------------------------|
| <p><() BL Public</p> | <p>True if the value of this is less than the value of other.</p> | <p>QTY [in] other</p> |
| <p><=() BL</p> | <p>True if the value of this is less than or equal to</p> | <p>QTY [in] other</p> |

| Method | Notes | Parameters |
|---|--|-----------------------|
| Public | the value of other. | |
| >=() BL Public | True if the value of this is greater than or equal to the value of other. | QTY [in] other |
| >() BL Public | True if the value of this is greater than the value of other. | QTY [in] other |
| -() QTY Public | The result of subtraction of other from this. Other must be of the type of value (same type as this, except for TS, where the value must be a TS or a PQ with units of time, or for PQ, where the value of other must have compatible units), else the result is null (nullFlavor NI). | QTY [in] other |
| +() QTY Public | The result of addition of this and other. Other must be of the right type of value (same type as this, except for TS, where the value must be a PQ with units of time, or for PQ, where the value of other must have compatible units), else the result is null (nullFlavor NI). | QTY [in] other |
| compares() BL Public | whether this and other can be compared using equality. Note: Generally this is true if both this and other are the same type unless noted otherwise for specializations for QTY. | QTY [in] other |
| isDifference() Boolean Public | True if other is an instance that expresses the difference between two instances of this type. Note: Usually this is true if other the same as the type, except for TS, where the difference is expressed as a PQ with a unit that is a kind of time, and for PQ, where the units must be compatible. | QTY [in] other |

REAL

Type: **Class** **QTY**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Quantities *Keywords:*
Detail: Created on 7/26/2006. Last modified on 6/16/2009.
GUID: {46BF2B32-220A-419e-A92A-5CAB6812281B}

Fractional numbers. Typically used whenever quantities are measured, estimated, or computed from other real numbers. The typical representation is decimal, where the number of significant decimal digits is known as the precision.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|----------------|----------------|-------|
| NoteLink | Public REAL | Public Note | |
| Generalization Source -> Destination | Public REAL | Public QTY | |
| Realisation Source -> Destination | Public REAL | Public REAL | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|----------------------|
| value Decimal Public [0..1] | The value of the REAL if non Null. Real is the UML Kernel Real type. Note: This specification imposes no limitations on the size or precision of REAL, but most implementations will map this to a 8 to 12 byte Real. | <i>Default:</i> |

Operations

| Method | Notes | Parameters |
|-------------------------------|--|------------------------|
| + () REAL Public | The value of the addition of this and other. | REAL [in] other |
| - () REAL Public | The value of the subtraction of other from this | REAL [in] other |
| * () REAL Public | The value of the multiplication of this and other. | REAL [in] other |
| / () REAL Public | The value of this divided by other. If other is 0, then the result is nullFlavor NI. | REAL [in] other |
| - () REAL Public | The negative value of this | |
| max () REAL Public | The maximum of this and other. | REAL [in] other |
| min () REAL Public | The minimum of this and other | REAL [in] other |
| abs () REAL Public | The absolute value of this. | |
| floor () INT Public | The largest integer which is less than or equal to this | |
| ceiling () INT | The smallest integer which is greater than or | |

| Method | Notes | Parameters |
|---|--|------------------------|
| Public | equal to this | |
| round() INT Public | The integer which is closest to this. When there are two such integers, the largest one. | |
| inverted() REAL Public | The value of 1 divided by self | |
| power() REAL Public | this raised to the power of other | REAL [in] other |
| toInterval() IVL(REAL) Public | Converts this value to an interval that expresses the range covered by the precision. | |
| compares() BL Public | Real numbers may always be compared | QTY [in] other |

RTO

Type: **Class** **QTY**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Quantities *Keywords:*
Detail: Created on 7/26/2006. Last modified on 6/16/2009.
GUID: {0E49FC83-D7AB-419c-A3C4-90B65627F52D}

A quantity constructed as the quotient of a numerator quantity divided by a denominator quantity. Common factors in the numerator and denominator are not automatically cancelled out.

The RTO datatype supports titers (e.g., "1:128") and other quantities produced by laboratories that truly represent ratios. Ratios are not simply "structured numerics", particularly blood pressure measurements (e.g. "120/60") are not ratios.

Notes:

1. Ratios are different from rational numbers, i.e., in ratios common factors in the numerator and denominator never cancel out. A ratio of two real or integer numbers is not automatically reduced to a real number. This datatype is not defined to generally represent rational numbers. It is used only if common factors in numerator and denominator are not supposed to cancel out. This is only rarely the case. For observation values, ratios occur almost exclusively with titers. In most other cases, REAL should be used instead of the RTO.
2. Since many implementation technologies expect generics to be collections, or only have one parameter, RTO is not implemented as a generic in this specification. Constraints at the point where the RTO is used will define which form of QTY are used.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|---------------|---------------|-------|
| Generalization Source -> Destination | Public RTO | Public QTY | |
| Realisation Source -> Destination | Public RTO | Public RTO | |

| Connector | Source | Target | Notes |
|-----------------|---------------|----------------|-------|
| <u>NoteLink</u> | Public RTO | Public Note | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|----------------------|
| denominator QTY Public [0..1] | The quantity that divides the numerator in the ratio. The denominator SHALL not be zero. | <i>Default:</i> |
| numerator QTY Public [0..1] | The quantity that is being divided in the ratio | <i>Default:</i> |

Operations

| Method | Notes | Parameters |
|--------------------------------|--|-----------------------|
| compares() BL Public | This and other can be compared if both the numerator and denominator can be compared | QTY [in] other |

Strings

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: LocalDatatypes
Detail: Created on 6/16/2009. Last modified on 6/16/2009
GUID: {F4A03239-B0F8-4cb7-AFCF-5EA95C17FA41}

Strings - (Logical diagram)

Created By: AbdulMalik Shakir on 6/16/2009
Last Modified: 6/16/2009
Version: 1.0. **Locked:** False
GUID: {85B11C36-3628-4d95-BD55-C6F16801719C}

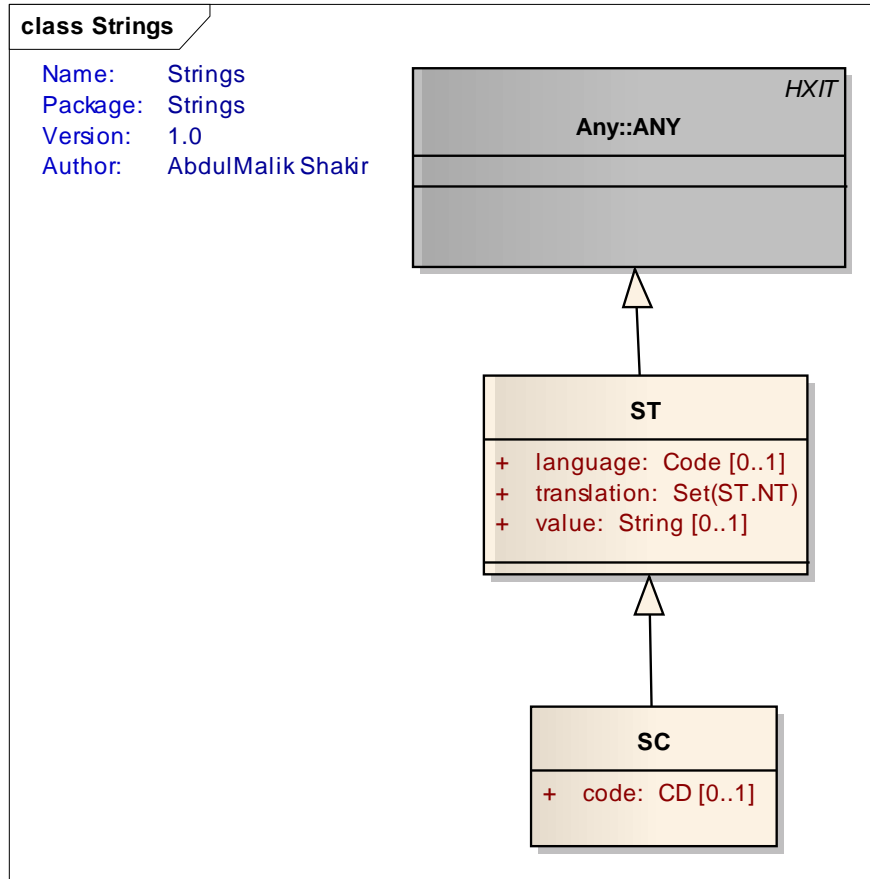


Figure: 56

SC

Type: **Class** ST
Status: Proposed. Version 1.0. Phase 1.0.
Package: Strings *Keywords:*
Detail: Created on 7/26/2006. Last modified on 6/16/2009.
GUID: {8D0F0EA0-3890-4976-9F2F-1FCB75B7EAEA}

A character string that optionally may have a code attached. The text must always be present if a code is present.

Note: The code is often a local code. SC is used in cases where coding is exceptional (e.g., user error messages are essentially text messages, and the text message is the important content. However sometimes messages come from a catalog of prepared messages, which SC allows to reference).

Any non-null SC value MAY have a code, however, a code SHALL NOT be given without the text.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|-----------------|----------------|-------|
| NoteLink | Public SC | Public Note | |
| Generalization Source -> Destination | Public SC.NT | Public SC | |
| Generalization Source -> Destination | Public SC | Public ST | |
| Realisation Source -> Destination | Public SC | Public SC | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|--|----------------------|
| code CD Public [0..1] | The coded value associated with the string. If the value is null, there is no coded value associated with this string. | <i>Default:</i> |

ST

Type: **Class** ANY
Status: Proposed. Version 1.0. Phase 1.0.
Package: Strings *Keywords:*
Detail: Created on 7/26/2006. Last modified on 6/16/2009.
GUID: {C5CC1517-8BCC-425f-A885-30B3B97344D6}

The character string datatype stands for text data, primarily intended for machine processing (e.g., sorting, querying, indexing, etc.). Used for names, symbols, and formal expressions.
 A ST SHALL have at least one character or else be NULL.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|--------------|----------------|-------|
| NoteLink | Public ST | Public Note | |
| Generalization Source -> Destination | Public ST | Public ANY | |
| Generalization | Public | Public | |

| Connector | Source | Target | Notes |
|--|--------------|--------------|-------|
| Source -> Destination | ST.NT | ST | |
| Realisation Source -> Destination | Public ST | Public ST | |
| Generalization Source -> Destination | Public SC | Public ST | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|----------------------|
| language Code Public [0..1] | The human language of the content. Valid codes are taken from the IETF RFC 3066. If this attribute is null, the language may be inferred from elsewhere, either from the context or from unicode language tags, for example. Note: While Language tags usually alter the meaning of the text, the language does not alter the meaning of the characters in the text. | <i>Default:</i> |
| translation Set(ST.NT) Public | Alternate renditions of the same content translated into a different language. Translations may not contain translations. The translations SHALL convey the same information, but in a different language. The translations do not take part in the test for equality, so SHALL NOT introduce any new semantics to the value. | <i>Default:</i> |
| value String Public [0..1] | The actual content of the string. Refer to section 6.7.4 for discussion on String character encodings | <i>Default:</i> |

Operations

| Method | Notes | Parameters |
|-------------------------------------|-------|----------------------------------|
| mediaType() String Public | | |
| size() INT Public | | |
| concat() ST Public | | ST [in] other |
| substring() ST Public | | INT [in] upper INT [in] lower |
| toInteger() INT | | |

| Method | Notes | Parameters |
|-----------------------------------|-------|------------|
| Public | | |
| toReal() REAL Public | | |
| toTimestamp() TS Public | | |

TimingExpressions

Type: **Package**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: LocalDatatypes
 Detail: Created on 6/16/2009. Last modified on 6/16/2009
 GUID: {58C8DC63-B121-4bd4-AE87-D44750F32BA4}

TimingExpressions - (Logical diagram)

Created By: AbdulMalik Shakir on 6/16/2009
 Last Modified: 6/16/2009
 Version: 1.0. Locked: False
 GUID: {483C0CF9-A8A6-473f-A285-7BEA707B77FB}

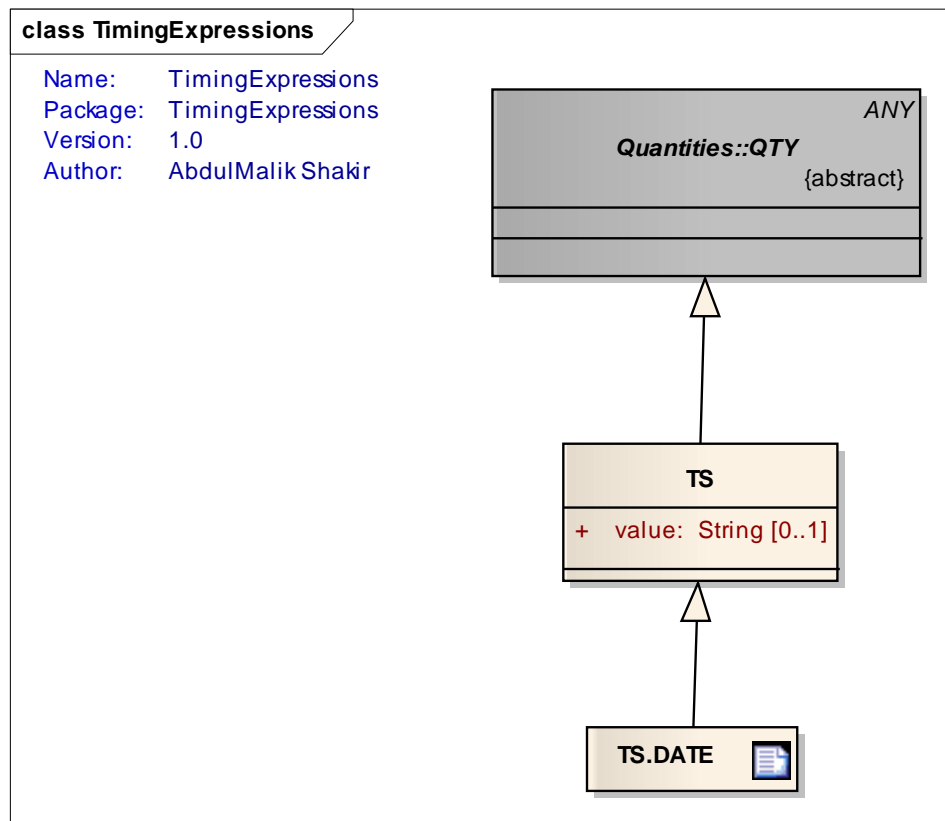


Figure: 57

TS

Type: **Class** **QTY**
Status: Proposed. Version 1.0. Phase 1.0.
Package: TimingExpressions **Keywords:**
Detail: Created on 7/26/2006. Last modified on 6/16/2009.
GUID: {2D510014-9EB2-42ec-A6DA-5B5763E85D11}

A quantity specifying a point on the axis of natural time. A point in time is most often represented as a calendar expression.

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|-----------------------|----------------|-------|
| NoteLink | Public TS | Public Note | |
| Generalization Source -> Destination | Public TS.DATE | Public TS | |
| Generalization Source -> Destination | Public TS.DATETIME | Public TS | |
| Realisation Source -> Destination | Public TS | Public TS | |
| Generalization Source -> Destination | Public TS | Public QTY | |

Attributes

| Attribute | Notes | Constraints and tags |
|---|---|----------------------|
| value String Public [0..1] | The value of the TS if non Null. value is a string with the format "YYYYMMDDHHMMSS.UUUU[+ -ZZzz]" that conforms to the constrained ISO 8601 that is defined in ISO 8824 (ASN.1) under clause 32 (generalized time). The format should be used to the degree of precision that is appropriate. | <i>Default:</i> |

Operations

| Method | Notes | Parameters |
|------------------|---|----------------------|
| +() TS Public | The value of the addition of this and other; if other.units are not a time, null (NullFlavor NI). | PQ [in] other |
| -() TS Public | The value of the subtraction of other from this; if other.units are not a time, null (NullFlavor | PQ [in] other |

| Method | Notes | Parameters |
|---------------------------------------|--|----------------------|
| | NI). | |
| -() PQ Public | The value of the subtraction of other from this; the return value will have units that are a time. | TS [in] other |
| max() TS Public | The maximum of this and other. | TS [in] other |
| min() TS Public | The minimum of this and other. | TS [in] other |
| toInterval() IVL(TS) Public | Converts this value to an interval that expresses the range covered by the precision. | |

TS.DATE

Type: **Class** **TS**
Status: Proposed. Version 1.0. Phase 1.0.
Package: TimingExpressions *Keywords:*
Detail: Created on 6/26/2007. Last modified on 6/16/2009.
GUID: {7E0DAA40-5CF2-44a8-85F5-331EF2BC76EC}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|------------------------|-------------------|-------|
| <u>NoteLink</u> | Public TS.DATE | Public Note | |
| <u>Generalization</u> Source -> Destination | Public TS.DATE.FULL | Public TS.DATE | |
| <u>Realisation</u> Source -> Destination | Public TS.DATE | Public TS.DATE | |
| <u>Generalization</u> Source -> Destination | Public TS.DATE | Public TS | |

Enumerations

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.

Package: EMS DAM Static Information Model
 Detail: Created on 6/30/2009. Last modified on 8/12/2009
 GUID: {EDE77EE9-B1B4-4efc-B1F9-0121F0AECBEF}

Enumerations - (Logical diagram)

Created By: AbdulMalik Shakir on 6/30/2009
 Last Modified: 8/25/2009
 Version: 1.0. Locked: False
 GUID: {41732B71-C825-4903-9514-AE4BFD4E0E7E}

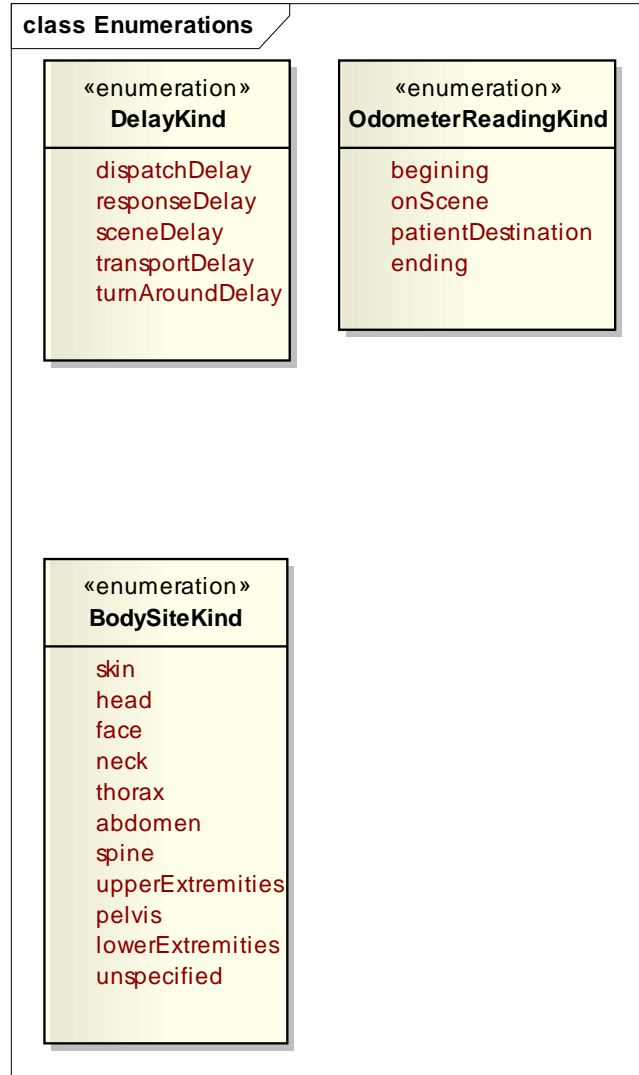


Figure: 58

BodySiteKind

Type: **Enumeration**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: Enumerations *Keywords:*
 Detail: Created on 8/25/2009. Last modified on 8/25/2009.

GUID: {98D5995C-6E7A-4905-B06F-142C1EA8AEC7}

Custom Properties

- isActive = False

Attributes

| Attribute | Notes | Constraints and tags |
|---------------------------------------|-------|----------------------|
| skin Public «enum» | | <i>Default:</i> |
| head Public «enum» | | <i>Default:</i> |
| face Public «enum» | | <i>Default:</i> |
| neck Public «enum» | | <i>Default:</i> |
| thorax Public «enum» | | <i>Default:</i> |

| Attribute | Notes | Constraints and tags |
|---|-------|----------------------|
| abdomen Public «enum» | | <i>Default:</i> |
| spine Public «enum» | | <i>Default:</i> |
| upperExtremities Public «enum» | | <i>Default:</i> |
| pelvis Public «enum» | | <i>Default:</i> |
| lowerExtremities Public «enum» | | <i>Default:</i> |
| unspecified Public «enum» | | <i>Default:</i> |

Type: **Enumeration**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Enumerations *Keywords:*
Detail: Created on 6/29/2009. Last modified on 6/30/2009.
GUID: {3D3E70E3-64FB-4ba0-9130-EF52FFA312A4}

Custom Properties

- isActive = False

Attributes

| Attribute | Notes | Constraints and tags |
|---|-------|----------------------|
| dispatchDelay Public «enum» | | <i>Default:</i> |
| responseDelay Public «enum» | | <i>Default:</i> |
| sceneDelay Public «enum» | | <i>Default:</i> |
| transportDelay Public «enum» | | <i>Default:</i> |

| Attribute | Notes | Constraints and tags |
|--|-------|----------------------|
| turnAroundDelay Public «enum» | | <i>Default:</i> |

OdometerReadingKind

Type: **Enumeration**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Enumerations *Keywords:*
Detail: Created on 6/29/2009. Last modified on 6/30/2009.
GUID: {6F5227D0-57D4-4276-8616-48392B4F1A1A}

Custom Properties

- isActive = False

Attributes

| Attribute | Notes | Constraints and tags |
|---|-------|----------------------|
| begining Public «enum» | | <i>Default:</i> |
| onScene Public «enum» | | <i>Default:</i> |
| patientDestination Public «enum» | | <i>Default:</i> |

| Attribute | Notes | Constraints and tags |
|---------------------------------------|-------|----------------------|
| ending Public «enum» | | Default: |

ResponseOccuranceKind

Type: **Enumeration**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: Enumerations *Keywords:*
 Detail: Created on 7/14/2009. Last modified on 7/14/2009.
 GUID: {EAFDB000-2B43-41cf-9AB2-6F7DEA9582BC}

Custom Properties

- isActive = False

Attributes

| Attribute | Notes | Constraints and tags |
|---|-------|----------------------|
| incident Public «enum» | | Default: |
| publicSafetyAnsweringPointNotification Public «enum» | | Default: |
| dispatchNotification Public «enum» | | Default: |

| Attribute | Notes | Constraints and tags |
|---|-------|----------------------|
| dispatchUnitNotification Public «enum» | | <i>Default:</i> |
| unitEnRoute Public «enum» | | <i>Default:</i> |
| unitOnSceneArrival Public «enum» | | <i>Default:</i> |
| unitAtPatientArrival Public «enum» | | <i>Default:</i> |
| patientCareTransfer Public «enum» | | <i>Default:</i> |
| unitDepartScene Public «enum» | | <i>Default:</i> |

| Attribute | Notes | Constraints and tags |
|--|-------|----------------------|
| patientDestinationArrival Public «enum» | | <i>Default:</i> |
| unitBackInService Public «enum» | | <i>Default:</i> |
| unitCancelled Public «enum» | | <i>Default:</i> |
| unitBackHome Public «enum» | | <i>Default:</i> |

Information Model Sand Box

Type: Package
Status: Proposed. Version 1.0. Phase 1.0.
Package: EMS Domain Analysis Model
Detail: Created on 4/23/2009. Last modified on 8/12/2009
GUID: {A4274CB3-97A7-431d-9EE1-3C86BB1361B8}

Information Model Sand Box - (Package diagram)

Created By: Salimah Shakir on 8/12/2009
Last Modified: 8/26/2009
Version: 1.0. *Locked:* False
GUID: {346EB794-734B-4975-9CAB-A00C71AF566D}

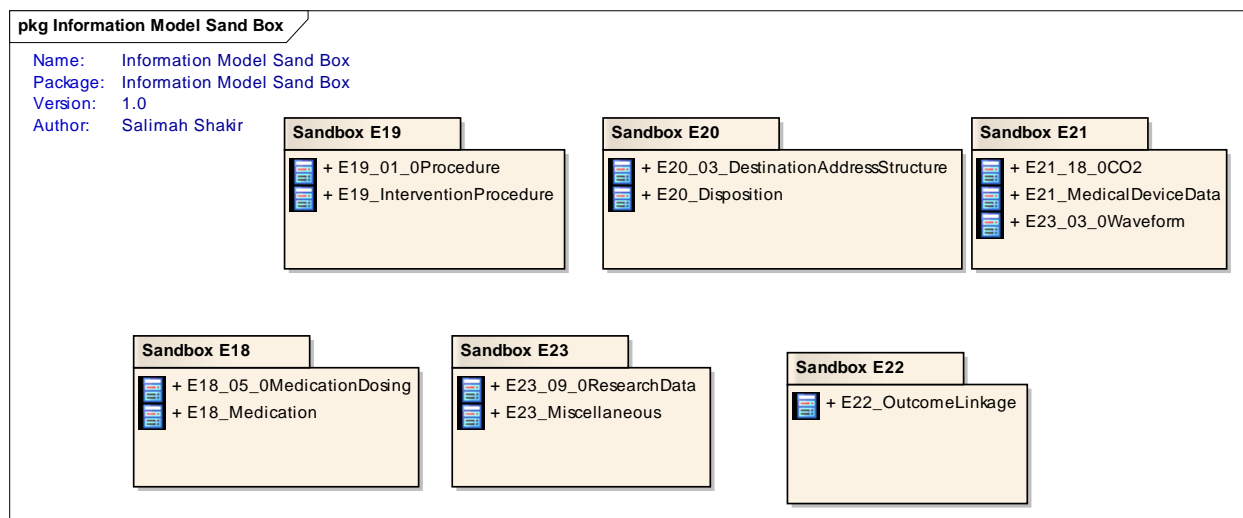


Figure: 59

Sandbox E18

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Information Model Sand Box
Detail: Created on 8/12/2009. Last modified on 8/13/2009
GUID: {67A8F7BE-022D-4341-B0C7-8EDE16908F0F}

E18 InterventionMedication - (Logical diagram)

Created By: AbdulMalik Shakir on 8/12/2009
Last Modified: 8/13/2009
Version: 1.0. *Locked:* False
GUID: {E128F43C-17C4-4a8d-84AA-747DCADB3C66}

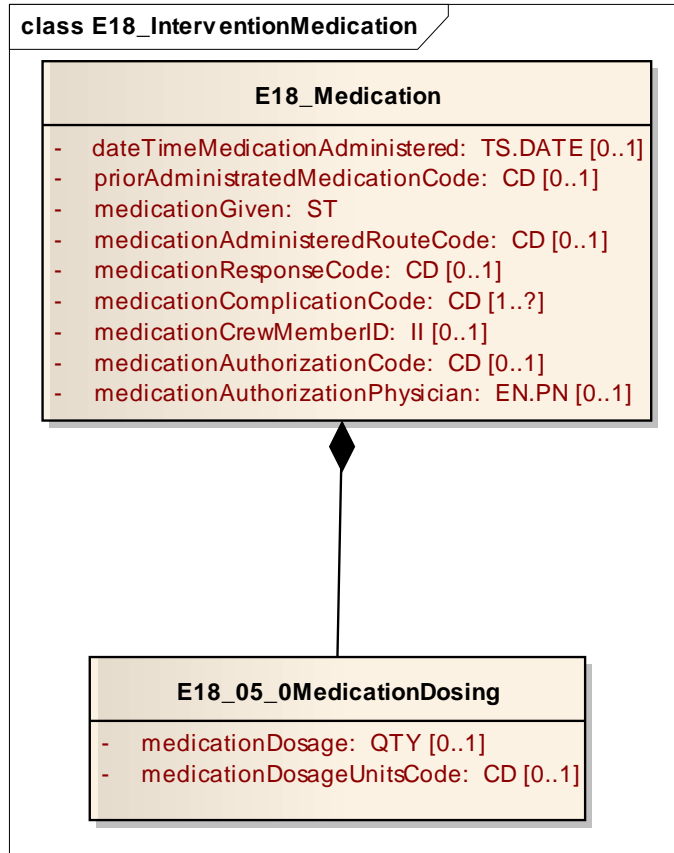


Figure: 60

E18_05_0MedicationDosing

Type: Class
Status: Proposed. Version 1.0. Phase 1.0.
Package: Sandbox E18 *Keywords:*
Detail: Created on 8/12/2009. Last modified on 8/12/2009.
GUID: {87B65F57-C1F1-45af-AABA-BEE1110A3668}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|--|--------------------------|-------|
| Aggregation Source -> Destination | Public E18_05_0MedicationD osing | Public E18_Medication | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|--|
| medicationDosage QTY Private [0..1] | The dose or amount of medication given to the patient | <i>Default:</i> NEMESIS Reference: { E18_05 Medication Dosage } |
| medicationDosageUnitsCode CD Private [0..1] | The units of medication dosage given to patient | <i>Default:</i> NEMESIS Reference: { E18_06 Medication Dosage Units } |

E18_Medication

Type: **Class**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: Sandbox E18 *Keywords:*
 Detail: Created on 8/12/2009. Last modified on 8/12/2009.
 GUID: {0FC59C8A-38E9-423f-AD35-AB72093A3CCA}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|--|--------------------------|-------|
| Aggregation Source -> Destination | Public E18_05_0MedicationD osing | Public E18_Medication | |

Attributes

| Attribute | Notes | Constraints and tags |
|-----------|-------|----------------------|
|-----------|-------|----------------------|

| Attribute | Notes | Constraints and tags |
|--|--|--|
| dateTimeMedicationAdministered TS.DATE Private [0..1] | The date/time medication administered to the patient | <i>Default:</i> NEMESIS Reference: { E18_01 Date/Time Medication Administered } |
| priorAdministratedMedicationCode CD Private [0..1] | Indicates that the medication administration which is documented was administered prior to this EMS unit's care. | <i>Default:</i> NEMESIS Reference: { E18_02 Medication Administered Prior To This Units EMS Care } |
| medicationGiven ST Private | The medication given to the patient | <i>Default:</i> NEMESIS Reference: { E18_03 Medication Given } |
| medicationAdministeredRouteCode CD Private [0..1] | The route that the medication was administered to the patient. | <i>Default:</i> NEMESIS Reference: { E18_04 Medication Administered Route } |
| medicationResponseCode CD Private [0..1] | The patient's response to the medication. | <i>Default:</i> NEMESIS Reference: { E18_07 Response To Medication } |
| medicationComplicationCode CD Private [1..?] | Any complication (abnormal effect on the patient) associated with the administration of the medication to the patient by EMS | <i>Default:</i> NEMESIS Reference: { E18_08 Medication Complication } |

| Attribute | Notes | Constraints and tags |
|---|--|--|
| medicationCrewMember ID II Private [0..1] | The statewide assigned ID number of the EMS crew member giving the treatment to the patient | <i>Default:</i> NEMESIS Reference: { E18_09 Medication Crew Member ID } |
| medicationAuthorization Code CD Private [0..1] | The type of treatment authorization obtained | <i>Default:</i> NEMESIS Reference: { E18_10 Medication Authorization } |
| medicationAuthorization Physician EN.PN Private [0..1] | The last name of the authorizing physician ordering the medication administration if the order was provided by any manner other than protocol (standing order) in E18.10 | <i>Default:</i> NEMESIS Reference: { E18_11 Medication Authorizing Physician } |

Sandbox E19

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Information Model Sand Box
Detail: Created on 8/12/2009. Last modified on 8/12/2009
GUID: {44DD8FBE-3DF9-4344-9D62-CF081B46054E}

Sandbox E19 - (Logical diagram)

Created By: AbdulMalik Shakir on 8/12/2009
Last Modified: 8/12/2009
Version: 1.0. *Locked:* False
GUID: {A40AFCCA-BF20-4b0f-876C-454249029311}

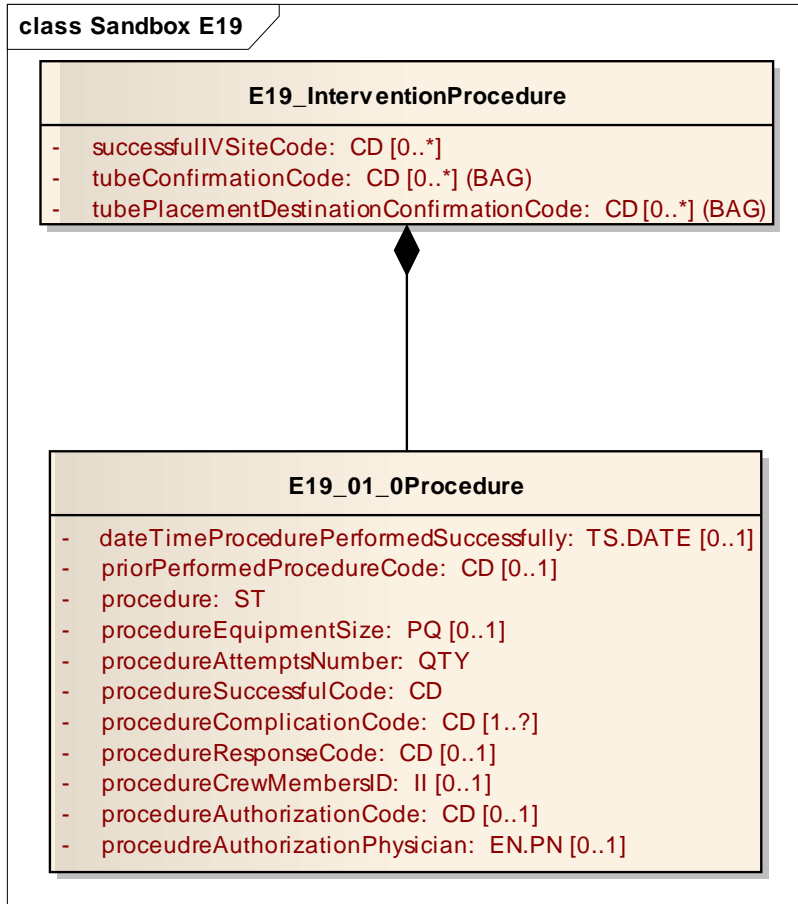


Figure: 61

E19_01_0Procedure

Type: Class
Status: Proposed. Version 1.0. Phase 1.0.
Package: Sandbox E19 *Keywords:*
Detail: Created on 8/12/2009. Last modified on 8/12/2009.
GUID: {D5B25955-D85C-4fff-A268-FFC853673527}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|-----------------------------|-------------------------------------|-------|
| Aggregation Source -> Destination | Public E19_01_0Procedure | Public E19_InterventionProcedure | |

Attributes

| Attribute | Notes | Constraints and tags |
|---|--|--|
| dateTimeProcedurePerformedSuccessfully TS.DATE Private [0..1] | The date and time the procedure was performed on the patient | <i>Default:</i> <u>NEMESIS Reference:</u> { E19_01 } |
| priorPerformedProcedureCode CD Private [0..1] | Indicates that the procedure which was performed and documented was performed prior to this EMS unit's care. | <i>Default:</i> <u>NEMESIS Reference:</u> { E19_02 Procedure Performed Prior To This Units EMS Care } |
| procedure ST Private | The procedure performed on the patient. | <i>Default:</i> <u>NEMESIS Reference:</u> { E19_03 The procedure performed on the patient. } |
| procedureEquipmentSize PQ Private [0..1] | The size of equipment used in the procedure on the patient | <i>Default:</i> <u>NEMESIS Reference:</u> { E19_04 Size Of Procedure Equipment } |
| procedureAttemptsNumber QTY Private | The number of attempts taken to complete a procedure or intervention regardless of success | <i>Default:</i> <u>NEMESIS Reference:</u> { E19_05 Number Of Procedure Attempts } |
| procedureSuccessfulCode CD Private | Indication of whether or not the procedure performed on the patient was successful | <i>Default:</i> |

| Attribute | Notes | Constraints and tags |
|---|---|--|
| procedureComplicationCode CD Private [1..?] | Any complication associated with the performance of the procedure on the patient | <i>Default:</i> NEMESIS Reference: { E19_07 Procedure Complication } |
| procedureResponseCode CD Private [0..1] | The patient's response to the procedure | <i>Default:</i> NEMESIS Reference: { E19_08 Response To Procedure } |
| procedureCrewMembersID II Private [0..1] | The statewide assigned ID number of the EMS crew member performing the procedure on the patient | <i>Default:</i> NEMESIS Reference: { E19_09 Procedure Crew Members ID } |
| procedureAuthorizationCode CD Private [0..1] | The type of procedure authorization obtained | <i>Default:</i> NEMESIS Reference: { E19_10 Procedure Authorization } |
| procedureAuthorizationPhysician EN.PN Private [0..1] | The last name of the authorizing physician ordering the procedure, if the order was provided by any manner other than protocol (standing order) | <i>Default:</i> NEMESIS Reference: { E19_11 Procedure Authorization Physician } |

E19_InterventionProcedure

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Sandbox E19 *Keywords:*
Detail: Created on 8/12/2009. Last modified on 8/12/2009.
GUID: {25C1E386-4719-4484-9CED-2B5E8528CA20}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|-----------------------------|---|-------|
| <u>Aggregation</u> Source -> Destination | Public E19_01_0Procedure | Public E19_InterventionProce dure | |

Attributes

| Attribute | Notes | Constraints and tags |
|---|---|---|
| successfulIVSiteCode CD Private [0..*] | The location of the IV site (if applicable) on the patient | <i>Default:</i> <u>NEMESIS Reference:</u> { E19_12 Successful IV Site } |
| tubeConfirmationCode CD Private Collection [0..*] | Endotracheal Tube placement verification at the time the airway procedure was done | <i>Default:</i> <u>NEMESIS Reference:</u> { E19_13 Tube Confirmation } |
| tubePlacementDestinationConfirmationCode CD Private Collection [0..*] | Endotracheal Tube location verification on the arrival at the Destination (if applicable) | <i>Default:</i> <u>NEMESIS Reference:</u> { E19_14 Destination Confirmation Of Tube Placement } |

Sandbox E20

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Information Model Sand Box
Detail: Created on 8/13/2009. Last modified on 8/13/2009
GUID: {A7D024C9-DBC3-4b9f-AC09-C638AC2A671A}

Sandbox E20 - (Logical diagram)

Created By: AbdulMalik Shakir on 8/13/2009
Last Modified: 8/13/2009
Version: 1.0. *Locked:* False
GUID: {EDAA9492-280A-4983-B652-02F6A8E8A0DB}

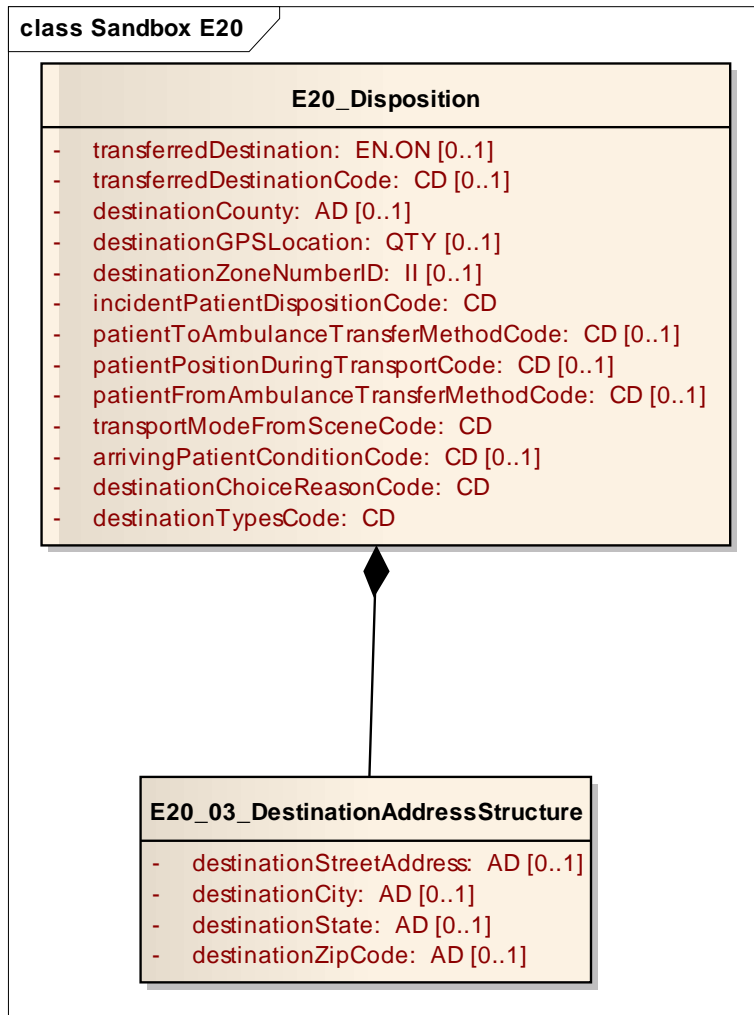


Figure: 62

E20_03_DestinationAddressStructure

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Sandbox E20 *Keywords:*
Detail: Created on 8/13/2009. Last modified on 8/13/2009.
GUID: {786EB5ED-037B-48ab-99C4-9507F5EF79AD}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|--|---------------------------|-------|
| Aggregation Source -> Destination | Public E20_03_DestinationAddressStructure | Public E20_Disposition | |

Attributes

| Attribute | Notes | Constraints and tags |
|---|---|--|
| destinationStreetAddress AD Private [0..1] | The street address of the destination the patient was delivered or transferred to | <i>Default:</i> <u>NEMESIS Reference:</u> { E20_03 Destination Street Address } |
| destinationCity AD Private [0..1] | The city name of the destination the patient was delivered or transferred to | <i>Default:</i> <u>NEMESIS Reference:</u> { E20_04 Destination City } |
| destinationState AD Private [0..1] | The destination State in which the patient was delivered or transferred to | <i>Default:</i> <u>NEMESIS Reference:</u> { E20_05 Destination State } |
| destinationZipCode AD Private [0..1] | The destination zip code in which the patient was delivered or transferred to | <i>Default:</i> <u>NEMESIS Reference:</u> { E20_07 Destination Zip Code } |

E20_Disposition

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Sandbox E20 *Keywords:*
Detail: Created on 8/13/2009. Last modified on 8/13/2009.
GUID: {1E74C688-0AD1-476e-966A-6CC484A5975A }

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|--|--|---------------------------|-------|
| <u>Aggregation</u> Source -> Destination | Public E20_03_DestinationAddressStructure | Public E20_Disposition | |

Attributes

| Attribute | Notes | Constraints and tags |
|---|---|---|
| transferredDestination EN.ON Private [0..1] | The destination the patient was delivered or transferred to | <i>Default:</i> <u>NEMESIS Reference:</u> { E20_01 Destination/ Transferred To, Name } |
| transferredDestinationCode CD Private [0..1] | The code of the destination the patient was delivered or transferred to, if present and available | <i>Default:</i> <u>NEMESIS Reference:</u> { E20_02 Destination/Transferred To, Code } |
| destinationCounty AD Private [0..1] | The destination County in which the patient was delivered or transferred to | <i>Default:</i> <u>NEMESIS Reference:</u> { E20_06 Destination County } |
| destinationGPSLocation QTY Private [0..1] | The destination GPS coordinates to which the patient was delivered or transferred to | <i>Default:</i> <u>NEMESIS Reference:</u> { E20_08 Destination GPS Location } |

| Attribute | Notes | Constraints and tags |
|---|--|--|
| <p>destinationZoneNumberID II Private</p> <p>[0..1]</p> | <p>The zone number of the destination the patient was delivered or transferred to</p> | <p><i>Default:</i> <u>NEMESIS Reference:</u> { E20_09 Destination Zone Number }</p> |
| <p>incidentPatientDispositionCode CD Private</p> | <p>Type of disposition treatment and/or transport of the patient.</p> | <p><i>Default:</i> <u>NEMESIS Reference:</u> { E20_10 Incident/Patient Disposition }</p> |
| <p>patientToAmbulanceTransferMethodCode CD Private</p> <p>[0..1]</p> | <p>The method the patient was moved to the ambulance from the scene</p> | <p><i>Default:</i> <u>NEMESIS Reference:</u> { E20_11 How Patient Was Moved To Ambulance }</p> |
| <p>patientPositionDuringTransportCode CD Private</p> <p>[0..1]</p> | <p>The position of the patient during transport from the scene</p> | <p><i>Default:</i> <u>NEMESIS Reference:</u> { E20_12 Position Of Patient During Transport }</p> |
| <p>patientFromAmbulanceTransferMethodCode CD Private</p> <p>[0..1]</p> | <p>The method the patient was moved from the ambulance to the destination</p> | <p><i>Default:</i> <u>NEMESIS Reference:</u> { E20_13 How Patient Was Transported From Ambulance }</p> |
| <p>transportModeFromSceneCode CD Private</p> | <p>Indication whether or not lights and/or sirens were used on the vehicle while leaving scene</p> | <p><i>Default:</i> <u>NEMESIS Reference:</u> { E20_14 Transport Mode From Scene }</p> |

| Attribute | Notes | Constraints and tags |
|---|---|--|
| arrivingPatientCondition Code CD Private [0..1] | The condition of the patient after care by EMS | <i>Default:</i> NEMESIS Reference: { E20_15 Condition Of Patient At Destination } |
| destinationChoiceReason Code CD Private | The reason the unit chose to deliver or transfer the patient to the destination | <i>Default:</i> NEMESIS Reference: { E20_16 Reason For Choosing Destination } |
| destinationTypesCode CD Private | The type of destination the patient was delivered or transferred to | <i>Default:</i> NEMESIS Reference: { E20_17 Type Of Destination } |

Sandbox E21

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Information Model Sand Box
Detail: Created on 8/13/2009. Last modified on 8/13/2009
GUID: {1893BAB1-DC9A-4c9c-BD87-1DF8A02BA6FF}

Sandbox E21 - (Logical diagram)

Created By: AbdulMalik Shakir on 8/13/2009
Last Modified: 8/13/2009
Version: 1.0. *Locked:* False
GUID: {B001F744-8520-4670-A307-8537F87DC346}

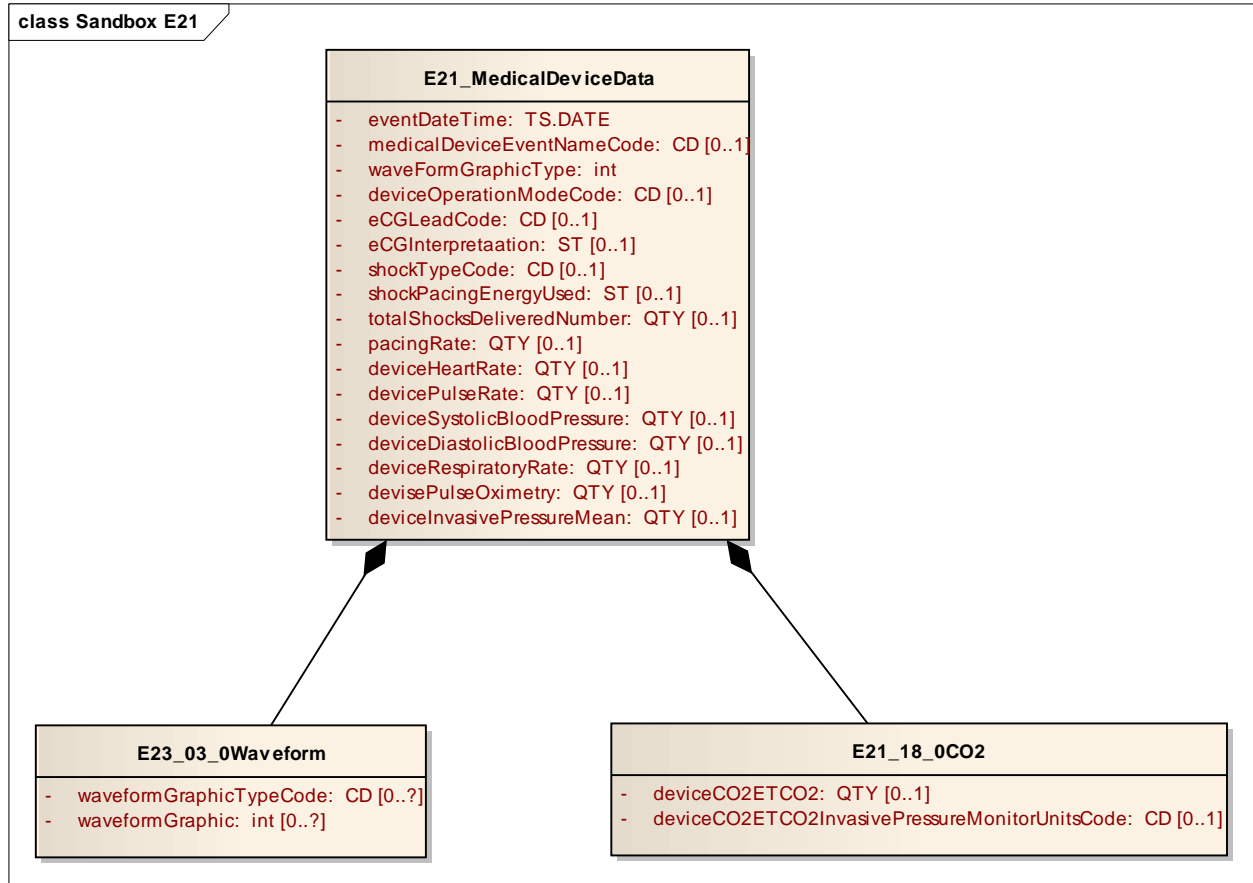


Figure: 63

E21_18_0CO2

Type: **Class**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: Sandbox E21 *Keywords:*
 Detail: Created on 8/13/2009. Last modified on 8/13/2009.
 GUID: {CD0A9FC5-6ED8-4681-A141-519106BBD76A}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|-----------------------|---------------------------------|-------|
| Aggregation Source -> Destination | Public E21_18_0CO2 | Public E21_MedicalDeviceData | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|---|
| deviceCO2ETCO2 QTY Private [0..1] | The Carbon Dioxide or end-tidal Carbon Dioxide as measured from the device transducers (if appropriate for the event) | <i>Default:</i> NEMESIS Reference: { E21_18 Device CO2 Or ETCO2 } |
| deviceCO2ETCO2InvasivePressureMonitorUnits Code CD Private [0..1] | The Units of Carbon Dioxide, end-tidal Carbon Dioxide, invasive pressure monitor 1, or invasive pressure monitor 2 as measured from the device transducers (if appropriate for the event) | <i>Default:</i> NEMESIS Reference: { Device CO2, ETCO2, Or Invasive Pressure Monitor Units } |

E21_MedicalDeviceData

Type: **Class**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: Sandbox E21 *Keywords:*
 Detail: Created on 8/13/2009. Last modified on 8/13/2009.
 GUID: {8F71BD2D-2A7D-4b46-AF84-E80411B67AD6}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|----------------------------|---------------------------------|-------|
| Aggregation Source -> Destination | Public E23_03_0Waveform | Public E21_MedicalDeviceData | |
| Aggregation Source -> Destination | Public E21_18_0CO2 | Public E21_MedicalDeviceData | |

Attributes

| Attribute | Notes | Constraints and tags |
|-----------|-------|----------------------|
|-----------|-------|----------------------|

| Attribute | Notes | Constraints and tags |
|---|---|---|
| eventDateTime TS.DATE Private | The time of the event recorded by the device's internal clock | <i>Default:</i> <u>NEMESIS Reference:</u> { E21_01 Event Date/Time } |
| medicalDeviceEventNameCode CD Private [0..1] | The type of event documented by the medical device. | <i>Default:</i> <u>NEMESIS Reference:</u> { E21_02 Medical Device Event Name } |
| waveFormGraphicType int Private | | <i>Default:</i> |
| deviceOperationModeCode CD Private [0..1] | The mode of operation the device is operating in during the defibrillation, pacing, or rhythm analysis by the device (if appropriate for the event) | <i>Default:</i> <u>NEMESIS Reference:</u> { E21_05 AED, Pacing, Or C02 Mode } |
| eCGLeadCode CD Private [0..1] | The lead or source which the medical device used to obtain the rhythm (if appropriate for the event) | <i>Default:</i> <u>NEMESIS Reference:</u> { E21_06 ECG Lead } |
| eCGInterpretation ST Private [0..1] | The interpretation of the rhythm by the device (if appropriate for the event) | <i>Default:</i> <u>NEMESIS Reference:</u> { E21_07 ECG Interpretation } |

| Attribute | Notes | Constraints and tags |
|--|--|--|
| shockTypeCode CD Private [0..1] | The energy form used by the device for the defibrillation (if appropriate for the event) | <i>Default:</i> <u>NEMESIS Reference:</u> { E21_08 Type Of Shock } |
| shockPacingEnergyUsed ST Private [0..1] | The energy used for the shock or pacing event (if appropriate for the event) | <i>Default:</i> <u>NEMESIS Reference:</u> { E21_09 Shock Or Pacing Energy } |
| totalShocksDeliveredNumber QTY Private [0..1] | The number of times the patient was defibrillated, if the patient was defibrillated during the patient encounter. | <i>Default:</i> <u>NEMESIS Reference:</u> { E21_10 Total Number Of Shocks Delivered } |
| pacingRate QTY Private [0..1] | The rate the device was calibrated to pace during the event, if appropriate. | <i>Default:</i> <u>NEMESIS Reference:</u> { E21_11 Pacing Rate } |
| deviceHeartRate QTY Private [0..1] | The heart rate electronically obtained by the device (if appropriate for the event) | <i>Default:</i> <u>NEMESIS Reference:</u> { E21_12 Device Heart Rate } |
| devicePulseRate QTY Private [0..1] | The pulse rate as measured from the pulse oximeter, non-invasive pressure, or invasive pressure transducers (if appropriate for the event) | <i>Default:</i> <u>NEMESIS Reference:</u> { E21_13 Device Pulse Rate } |

| Attribute | Notes | Constraints and tags |
|--|---|--|
| deviceSystolicBloodPressure QTY Private [0..1] | The Systolic Blood Pressure as measured either through non-invasive blood pressure, invasive blood pressure monitor 1, or invasive blood pressure monitor 2 (if appropriate for the event) | <i>Default:</i> NEMESIS Reference: { E21_14 Device Systolic Blood Pressure } |
| deviceDiastolicBloodPressure QTY Private [0..1] | The Diastolic Blood Pressure as measured either through non-invasive blood pressure, invasive blood pressure monitor 1, or invasive blood pressure monitor 2 (if appropriate for the event) | <i>Default:</i> NEMESIS Reference: { E21_15 Device Diastolic Blood Pressure } |
| deviceRespiratoryRate QTY Private [0..1] | The Respiratory Rate as calculated from the device through one of the various monitoring parameters (if appropriate for the event) | <i>Default:</i> NEMESIS Reference: { E21_16 Device Respiratory Rate } |
| devicePulseOximetry QTY Private [0..1] | The Oxygen Saturation as measured from the pulse oximeter in % (if appropriate for the event) | <i>Default:</i> NEMESIS Reference: { E21_17 Device Pulse Oximetry } |
| deviceInvasivePressureMean QTY Private [0..1] | The Invasive Pressure Mean as calculated either through the invasive pressure monitor 1 or the invasive pressure monitor 2 (if appropriate for the event) | <i>Default:</i> NEMESIS Reference: { E21_20 Device Invasive Pressure Mean } |

E23_03_0Waveform

Type: Class
Status: Proposed. Version 1.0. Phase 1.0.
Package: Sandbox E21 *Keywords:*
Detail: Created on 8/13/2009. Last modified on 8/13/2009.
GUID: {D5F636F4-559B-42e4-873B-276B484DE666}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|----------------------------|-------------------------------------|-------|
| <u>Aggregation</u> Source -> Destination | Public E23_03_0Waveform | Public E21_MedicalDeviceDat a | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|--|--|
| waveformGraphicTypeCode CD Private [0..?] | The type of waveform file stored in Waveform Graphic (E21.4) | <i>Default:</i> <u>NEMESIS Reference:</u> { E21_03 Waveform Graphic Type } |
| waveformGraphic int Private [0..?] | The graphic waveform file in a PDF or JPG format. | <i>Default:</i> <u>NEMESIS Reference:</u> { E21_04 Waveform Graphic } |

Sandbox E22

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Information Model Sand Box
Detail: Created on 8/13/2009. Last modified on 8/13/2009
GUID: {B221CD08-2C89-4eee-B5EC-9A673895758C}

Sandbox E22 - (Logical diagram)

Created By: AbdulMalik Shakir on 8/13/2009
Last Modified: 8/14/2009
Version: 1.0. *Locked:* False
GUID: {A8BC1059-3AF2-4993-9F53-81F04EC6DFF4}

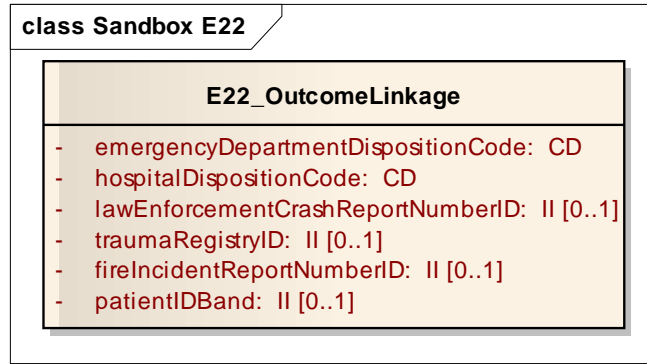


Figure: 64

E22_OutcomeLinkage

Type: Class
Status: Proposed. Version 1.0. Phase 1.0.
Package: Sandbox E22 *Keywords:*
Detail: Created on 8/13/2009. Last modified on 8/13/2009.
GUID: {F608C2A9-E866-4330-8269-694530D37E37}

Custom Properties

- isActive = False

Attributes

| Attribute | Notes | Constraints and tags |
|---|---|--|
| emergencyDepartmentDispositionCode CD Private | The known disposition of the patient from the Emergency Department (ED) | <i>Default:</i> NEMESIS Reference: { E22_01 Emergency Department Disposition } |
| hospitalDispositionCode CD Private | Indication of how the patient was dispositioned from the hospital, if admitted. | <i>Default:</i> NEMESIS Reference: { E22_02 Hospital Disposition } |

| Attribute | Notes | Constraints and tags |
|--|---|---|
| lawEnforcementCrashReportNumberID II Private [0..1] | The unique number associated with the law enforcement or crash report which can be used for linkage at a later date. | <i>Default:</i> NEMESIS Reference: { E22_03 Law Enforcement/Crash Report Number } |
| traumaRegistryID II Private [0..1] | The unique number associated with the local or state trauma registry which can be used for linkage at a later date. | <i>Default:</i> NEMESIS Reference: { E22_04 Trauma Registry ID } |
| fireIncidentReportNumberID II Private [0..1] | The unique number associated with the fire incident report which can be used for linkage at a later date. | <i>Default:</i> NEMESIS Reference: { E22_05 Fire Incident Report Number } |
| patientIDBand II Private [0..1] | The unique number associated with a patient ID band agency. This is used by a few states as a universal linkage between healthcare data agencies. | <i>Default:</i> NEMESIS Reference: { E22_06 Patient ID Band/Tag Number } |

Sandbox E23

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Information Model Sand Box
Detail: Created on 8/14/2009. Last modified on 8/14/2009
GUID: {FBE8D31B-F88E-4136-80B5-81BAA5555F2D}

Sandbox E23 - (Logical diagram)

Created By: AbdulMalik Shakir on 8/14/2009
Last Modified: 8/14/2009
Version: 1.0. *Locked:* False
GUID: {CEEE064F-FACA-47d1-A84D-445E003E619F}

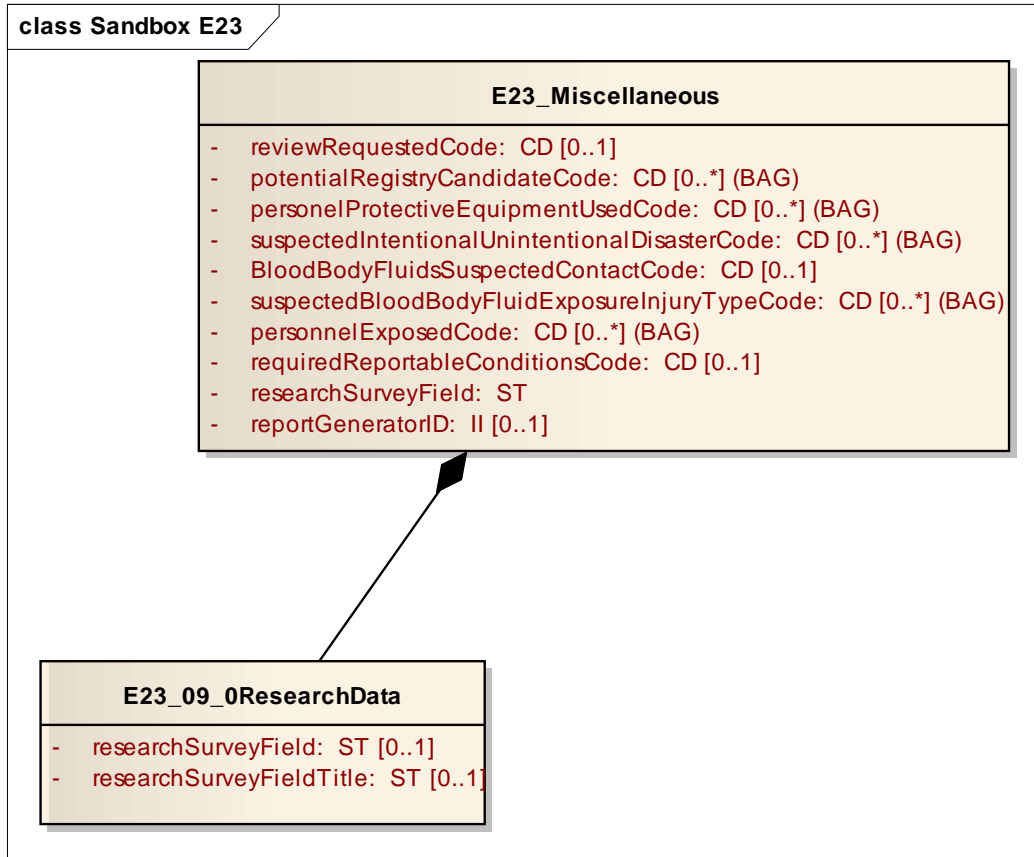


Figure: 65

E23_09_0ResearchData

Type: **Class**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: Sandbox E23 *Keywords:*
 Detail: Created on 8/14/2009. Last modified on 8/14/2009.
 GUID: {9445A99E-9E3E-4624-ACE3-CC8C1E537A1F}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|--------------------------------|-----------------------------|-------|
| Aggregation Source -> Destination | Public E23_09_0ResearchData | Public E23_Miscellaneous | |

Attributes

| Attribute | Notes | Constraints and tags |
|--|---|---|
| researchSurveyField ST Private [0..1] | A customizable field to be used by local agencies for additional documentation or research. | <i>Default:</i> NEMESIS Reference: { E23_09 Research Survey Field } |
| researchSurveyFieldTitle ST Private [0..1] | A customizable field to be used by local agencies for additional documentation or research. | <i>Default:</i> NEMESIS Reference: { E23_11 Research Survey Field Title } |

E23_Miscellaneous

Type: **Class**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: Sandbox E23 *Keywords:*
 Detail: Created on 8/14/2009. Last modified on 8/14/2009.
 GUID: {ADE15C63-CEA2-4d25-AC65-978B4CB2C62C}

Custom Properties

- isActive = False

Connections

| Connector | Source | Target | Notes |
|---|--------------------------------|-----------------------------|-------|
| Aggregation Source -> Destination | Public E23_09_0ResearchData | Public E23_Miscellaneous | |

Attributes

| Attribute | Notes | Constraints and tags |
|---|--|--|
| reviewRequestedCode CD Private [0..1] | Indication of whether the form needs review by anyone. | <i>Default:</i> NEMESIS Reference: { E23_01 Review Requested } |

| Attribute | Notes | Constraints and tags |
|---|---|---|
| <p>potentialRegistryCandidateCode CD Private</p> <p>Collection [0..*]</p> | <p>An indication if the patient may meet the entry criteria for a injury or illness specific registry</p> | <p><i>Default:</i> <u>NEMESIS Reference:</u> { E23_02 Potential Registry Candidate }</p> |
| <p>personnelProtectiveEquipmentUsedCode CD Private</p> <p>Collection [0..*]</p> | <p>The personal protective equipment which was used by EMS personnel during this EMS patient contact.</p> | <p><i>Default:</i> <u>NEMESIS Reference:</u> { E23_03 Personal Protective Equipment Used }</p> |
| <p>suspectedIntentionalUnintentionalDisasterCode CD Private</p> <p>Collection [0..*]</p> | <p>Suspicion of the listed multi-casualty or domestic terrorism causes.</p> | <p><i>Default:</i> <u>NEMESIS Reference:</u> { E23_04 Suspected Intentional, Or Unintentional Disaster }</p> |
| <p>BloodBodyFluidsSuspectedContactCode CD Private</p> <p>[0..1]</p> | <p>Indication of unprotected contact with blood or body fluids</p> | <p><i>Default:</i> <u>NEMESIS Reference:</u> { E23_05 Suspected Contact With Blood/Body Fluids Of EMS Injury Or Death }</p> |
| <p>suspectedBloodBodyFluidExposureInjuryTypeCode CD Private</p> <p>Collection [0..*]</p> | <p>The type of exposure or unprotected contact with blood or body fluids</p> | <p><i>Default:</i> <u>NEMESIS Reference:</u> { Type Of Suspected Blood/Body Fluid Exposure, Injury, Or }</p> |
| <p>personnelExposedCode CD Private</p> <p>Collection [0..*]</p> | <p>The EMS personnel who was/were exposed to unprotected contact with blood or body fluids</p> | <p><i>Default:</i> <u>NEMESIS Reference:</u> { E23_07 Personnel Exposed }</p> |

| Attribute | Notes | Constraints and tags |
|---|--|---|
| requiredReportableConditionsCode CD Private [0..1] | The presence of any condition which is reportable based on federal or state regulations. | <i>Default:</i> NEMESIS Reference: { E23_08 Required Reportable Conditions } |
| researchSurveyField ST Private | | <i>Default:</i> |
| reportGeneratorID II Private [0..1] | The statewide assigned ID number of the EMS crew member which completed this patient care report | <i>Default:</i> NEMESIS Reference: { E23_10 Who Generated This Report } |