Federal Health Architecture Program
Federal Health Information Model (FHIM)

Common Model



Publishing Facilitator: Ioana Singureanu, Eversolve/SAMHSA
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Common

These factors are veteran characteristics that are primarily used to identify veteran's eligibility for co-payment exemption. Eligible veterans will be exempt from co-payments for extended care services, hospital, outpatient, and medications for the treatment of conditions associated with Agent Orange Exposure, Ionizing Radiation Exposure, Persian Gulf Exposure, Head and/or Neck Cancer, Military Sexual Trauma, Combat Veterans, and Shipboard Hazard & Defense. For example if a veteran served in Vietnam and is treated for Diabetes, the clinician should indicate (Using the information provided thru Registration) that care was related to Agent Orange exposure (since Diabetes is presumed to be caused to AO exposure).

deprecate

_Common

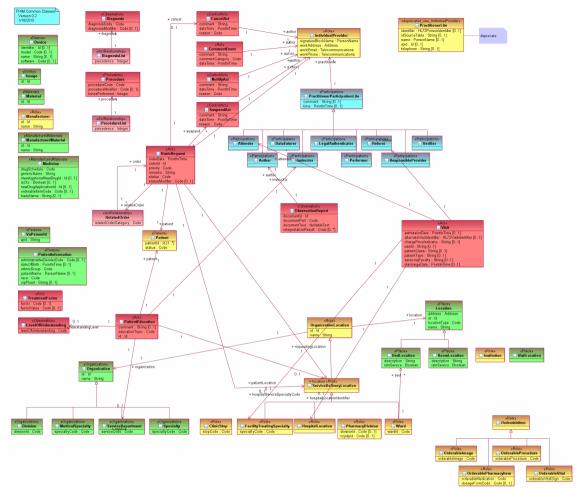


Figure _Common

_OrganizationLocation

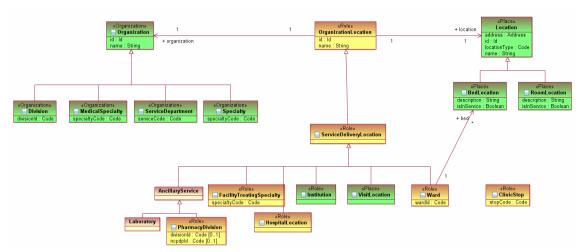


Figure _OrganizationLocation

«Act» Class: BasicRequest

This class represents that properties which are common to all orders. This class is "owned" by the Common package so as to avoid package interdependencies. Information that is specific to given order types (e.g., Lab, Pharmacy) are contained in subtypes to this class. These subtype classes are in the the respective domain packages (e.g., the LabRequest class is in the Lab package).

Attribute 'BasicRequest.author' of type ' IndividualProvider' with cardinality of [1] Identifies the practitioner who created the order

Attribute 'BasicRequest.orderDate' of type 'PointInTime' with cardinality of [1]

The date/time that the order was created by the ordering provider.

Attribute 'BasicRequest.orderId' of type ' Id' with cardinality of [1]

Uniquely identifies the order within the ordering provider's system.

Attribute 'BasicRequest.patient' of type 'Patient' with cardinality of [1]

Identifies the patient which is the subject of the Order.

Association 'BasicRequest.patientLocation' of type ' ServiceDeliveryLocation' with cardinality of [0..1]

The physical location where the order was or will be fulfilled.

Attribute 'BasicRequest.priority' of type 'Code' with cardinality of [1]

A code (e.g., routine, emergency), specifying the urgency under which the order is requested to happen.

Attribute 'BasicRequest.status' of type 'Code' with cardinality of [1]

A code specifying the status of the order. Valid status codes should reflect the HL7 state machine, e.g., Active, Held, Canceled, Aborted, New, Nullified, Obsolete).

«Place» Class: BedLocation

Identifies a bed at which services may be provided to a patient. This is equivalent to file 405.4 in VistA.

«ControlAct» Class: CancelAct

Contains information about the cancelation of the pharmacy order.

Attribute 'CancelAct.comment' of type 'String' with cardinality of [1]

Any comments or remarks regarding the cancelation of the Activity or Order.

Attribute 'CancelAct.dateTime' of type ' PointInTime' with cardinality of [1]

The date/time the Order was cancelled.

Attribute 'CancelAct.reason' of type 'Code' with cardinality of [1]

The reason the order was cancelled.

«Role» Class: ClinicStop

Identifies various nodes within a workflow process that is typically performed by a Medical Service. Used to facilitate collection of workload and financial information. This is equivalent to File 40.7 in Vista.

Attribute 'ClinicStop.stopCode' of type ' Code' with cardinality of [1]

Identifies various nodes within a workflow process that is typically performed by the Service. Used to facilitate collection of workload and financial information.

«Act» Class: CommentEvent

Contains all general comments reqarding the Surgial event that were not captured in the Clinical Document process.

Attribute 'CommentEvent.comment' of type 'String' with cardinality of [1]

Contains the textual description for the comment. Changes made June 2 2009 per CDS\Hdr order set issue. VHIM disagrees with approach needs be re-reviewed in the future. Changes are set attribute comments multipilicity to '*'.

Attribute 'CommentEvent.commentCategory' of type ' Code' with cardinality of [1]

Contains the code set that Identifies all the types of General comments.

Attribute 'CommentEvent.dateTime' of type 'PointInTime' with cardinality of [1]

The Date and time the comment was entered.

«Device» Class: Device

"A contrivance or an invention serving a particular purpose, especially a machine used to perform one or more relatively simple tasks." (The American Heritage® Stedman's Medical Dictionary)

Attribute 'Device.identifier' of type ' Id' with cardinality of [0..1]

Uniquely identifies the device.

Attribute 'Device.name' of type 'String' with cardinality of [0..1]

The name of the device.

Attribute 'Device.software' of type 'Code' with cardinality of [0..1]

The moniker, version and release of the software that operates the device as assigned by the software manufacturer or developer.

«Observation» Class: Diagnosis

"a.The act or process of identifying or determining the nature and cause of a disease or injury through evaluation of patient history, examination, and/or review of laboratory data. b.The opinion derived from such an evaluation" American Heritage Dictionary

Attribute 'Diagnosis.diagnosisCode' of type 'Code' with cardinality of [1]

Provides the code from the Structured Nomenclature of Medicine(SNOMED) that most closely identifies the condition of the diagnosis.

Attribute 'Diagnosis.diagnosisModifier' of type 'Code' with cardinality of [0..1]

Provides code from the International Classifications of Diseases ICD9 that most closely identifies the condition of the diagnosis.

«Organization» Class: Division

This is equivalent to File 40.8 in Vista.

Attribute 'Division.divisionId' of type 'Code' with cardinality of [1]

Contains the Code Set that identifies the Divisions in the VA.

«Role» Class: FacilityTreatingSpecialty

Provides an indication of the medical specialty of the organization-location. Examples include Medicine, Surgery, Psychiatry, etc. This is equivalent to File 45.7 in Vista.

«Role» Class: HospitalLocation

"A facility, often associated with a hospital or medical school, that is devoted to the diagnosis and care of outpatients." The American Heritage Stedman's Medical Dictionary. This is equivalent to File 44 (Hospital Location) in Vista.

«Role» Class: Institution

"An established or organised society or corporation; an establishment, especially of a public character, or affecting a community; ... also, a building or the buildings occupied or used by such organization" This is equivalent to File 4 in Vista.

«Observation» Class: LevelOfUnderstanding

This class captures information about patient's level of understanding after education is given to the patient.

Attribute 'LevelOfUnderstanding.levelOfUnderstanding' of type ' Code' with cardinality of [1]

Impression of how well the patient understood the education received. Example values include: Poor, Fair, Good, Group - no assessment, Refused, etc.

«Place» Class: Location

"A bounded physical place or site, including any contained structures. A place may be natural or man-made. The geographic position of a place may or may not be constant. Places may be work facilities (where relevant acts occur), homes (where people live) or offices (where people work). Places may contain sub-places (floor, room, booth, bed). Places may also be sites that are investigated in the context of health care, social work, public health administration (e.g., buildings, picnic grounds, day care centers, prisons, counties, states, and other focuses of epidemiological events). Examples include a field, lake, city, county, state, country, lot (land), building, pipeline, power line, playground, ship, truck." HL7 V3.

«ManufacturedMaterial» Class:

ManufacturedMaterial

"A subtype of Material representing an Entity or combination of Entities transformed for a particular purpose by a non-natural or manufacturing process." (HL7)

Attribute 'ManufacturedMaterial.id' of type ' ld' with cardinality of [1]

Uniquely identifies the device.

Attribute 'ManufacturedMaterial.name' of type 'String' with cardinality of [1]

The name of the device.

«Role» Class: Manufacturer

The organization that produced an item of interest.

Attribute 'Manufacturer.name' of type 'String' with cardinality of [1]

The name of the manufacturer.

«Material» Class: Material

"A subtype of Entity that is inanimate and locationally independent. Materials are entities that are neither LivingSubjects nor places. Manufactured or processed products are considered material, even if they originate as living matter. Materials come in a wide variety of physical forms and can pass through different states (ie. Gas, liquid, solid) whilestill retaining their physical composition and material characteristics." HL7 RIM.

«Organization» Class: MedicalSpecialty

"A branch of medicine or surgery in which a physician specializes; the field or practice of a specialist."
- The American Heritage Stedman's Medical Dictionary This is equivalent to File 723 in Vista.

«ManufacturedMaterial» Class: Medicine

An entity, either in its real or actual form, that can be used in the prevention, diagnosis or treatment of symptoms or disease. This is equivalent to File 50 in the current VistA system.

Attribute 'Medicine.drugSchedule' of type 'Code' with cardinality of [1]

A code that represents the special regulations of a drug based upon its degree of potential abuse and level of federal control as specified by the Drug Enforcement Administration (DEA) in accordance with the Controlled Substance Act. This attribute should contain a number between 1 and 5, with 1 representing the most controlled drugs (illegal drugs) and 5 representing the least controlled drugs. In addition a value of 0 is valid for drugs having no schedule.

Attribute 'Medicine.genericName' of type 'String' with cardinality of [1]

Generic name for the medication (e.g., "Acetaminophen 300 / Codeine 30" vice "Tylenol with Codeine").

Attribute 'Medicine.investigationalNewDrugId' of type ' Id' with cardinality of [0..1]

The unique identifier for the manufacturer's investigational new drug.

Attribute 'Medicine.isOtc' of type 'Boolean' with cardinality of [0..1]

Indicates whether this medication is sold over the counter.

Attribute 'Medicine.newDrugApplicationId' of type ' Id' with cardinality of [0..1]

The unique identifier for the manufacturer's new drug application for this medicine.

Attribute 'Medicine.orderableItemCode' of type 'Code' with cardinality of [0..1]

Identifies the medication. From a codeset of medications created and maintained by VHA.

Attribute 'Medicine.tradeName' of type 'String' with cardinality of [0..1]

Either a proprietary name that is registered to protect the name for the sole use of the manufacturer holding the trademark (e.g., Claritin) or a name that distinguishes a given vendor of a generic drug. For example, CVS Aspirin versus Safeway Aspirin.

«ControlAct» Class: NullifyAct

Records the nullification of an Act. Typically used when an erroneous record is "deleted". Because medical records should never be deleted, the record is instead "nullified", and is rendered not visible to typical users, but still exists in the system for the purpose of audit trails, etc.

Attribute 'NullifyAct.comment' of type 'String' with cardinality of [1]

Any comments or remarks regarding the nullification of the Activity record or Order.

Attribute 'NullifyAct.dateTime' of type ' PointInTime' with cardinality of [1]

The date/time the Activity record or Order was nullified.

Attribute 'NullifyAct.reason' of type ' Code' with cardinality of [1]

The reason why the Order or Activity record was nullified.

«Observation» Class: ObservationReport

This class represents the written report prepared by the practitioner. Each type of report will typically contain multiple pre-defined sections, which are represented by the ReportSection association. The section may also contain the entire report as fullText. The report contains the observation result as text and optionally as a coded value.

Attribute 'ObservationReport.documentId' of type ' Id' with cardinality of [1]

An identifier identifying each observation report; typically unique to the Observation Report.

Attribute 'ObservationReport.documentPart' of type 'Code' with cardinality of [1]

"Indicates the type of report section that is represented by a given instance of this class." Possible values are: Clinical Diagnosis, Cytologic Diagnosis, Frozen Diagnosis, Gross Diagnosis, Microscopic Diagnosis, Pathologic Diagnosis, Pre-operative Diagnosis, Post-operative Diagnosis, Previous Cytologic Diagnosis, Clinical History, Findings, and Recommentations. Also clinicalHistory, findings, and recommendations have been added as ReportSections.

Attribute 'ObservationReport.documentText' of type ' NullableText' with cardinality of [1]

The text of the report in it's entirety, as signed by the practitioner. Can also mean the text that comprises the report section.

Attribute 'ObservationReport.interpretationResult' of type ' Code' with cardinality of [*]

Captures the interpretation of an observation result. This is a set to allow for special interest coded values. Special Interest Coded Values - "This field is a multiple that contains the site-definable codes that could be associated with a report. Special interest codes may be used to flag reports that do not fit the predefined descriptions under ACR (Teaching Codes). You may assign as many special interest codes to an exam as you desire. Examples might be '200 = ASBESTOSIS' or '300 = DR.

«Role» Class: OrderableImage

An image that is requested as part of an order. Definition of Role: "A competency of the Entity playing the Role as identified, defined, guaranteed, or acknowledged by the Entity that scopes the Role." (HL7 3.0)

Attribute 'OrderableImage.orderableImage' of type 'Code' with cardinality of [1]

The actual image that is requested as part of an order.

«Role» Class: OrderableItem (Abstract)

Contains information about an item that may be requested as part of an order.

«Role» Class: OrderablePharmacyItem

A medication that is requested as part of an order. Definition of Role: "A competency of the Entity playing the Role as identified, defined, guaranteed, or acknowledged by the Entity that scopes the Role." (HL7 3.0)

Attribute 'OrderablePharmacyItem.dosageFormCode' of type 'Code' with cardinality of [0..1]

Form: "The shape and structure of something as distinguished from its material" (Webster's Medical Dictionary). Indicates the form of the material making up a single dose (as opposed to how the dose is packaged). Possible values include Tablet, Drop, Lozenge, Cream, etc.

Attribute 'OrderablePharmacyItem.orderableMedication' of type 'Code' with cardinality of [1]

The actual medication that is requested as part of an order.

«Role» Class: OrderableProcedure

A procedure that is requested as part of an order. Definition of Role: "A competency of the Entity playing the Role as identified, defined, guaranteed, or acknowledged by the Entity that scopes the Role." (HL7 3.0)

Attribute 'OrderableProcedure.orderableProcedure' of type 'Code' with cardinality of [1]

A procedure that is requested as part of an order.

«Role» Class: OrderableVital

A vital sign that is requested as part of an order. Definition of Role: "A competency of the Entity playing the Role as identified, defined, guaranteed, or acknowledged by the Entity that scopes the Role." (HL7 3.0)

Attribute 'OrderableVital.orderableVitalSign' of type 'Code' with cardinality of [1]

The actual vital sign that is requested as part of an order.

«Organization» Class: Organization

"An Entity representing a formalized group of entities with a common purpose (e.g. administrative, legal, political) and the infrastructure to carry out that purpose." (HL7)

Attribute 'Organization.id' of type ' Id' with cardinality of [1]

An unique string or token used to identify the organization

«Act» Class: PatientEducation

This class captures information about the education given to the patient or his responsible care giver.

Attribute 'PatientEducation.comment' of type 'String' with cardinality of [0..1]

Comment related to the patient's education.

Attribute 'PatientEducation.educationTopic' of type 'Code' with cardinality of [1]

Represents the education given to the patient.

Attribute 'PatientEducation.id' of type ' Id' with cardinality of [1]

Unique id, for the instance of the patient education.

Association 'PatientEducation.location' of type 'ServiceDeliveryLocation' with cardinality of [0..1]

The location at which the patient education occured.

Association 'PatientEducation.service' of type 'ServiceDepartment' with cardinality of [0..1]

The service department at which the patient education occured.

Association 'PatientEducation.understandingLevel' of type ' LevelOfUnderstanding' with cardinality of [0..1]

Impression of how well the patient understood the education received.

«Person» Class: PatientInformation

Captures the detailed information about the patient. Note, this is a private attribute, per Galen it should be public attribute.

Attribute 'PatientInformation.administrativeGenderCode' of type 'Code' with cardinality of [0..1]

COntains the Code Set that identifies the patient's gender

Attribute 'PatientInformation.dateOfBirth' of type 'PointInTime' with cardinality of [0..1]

Contains the Patient Date of Birth.

Attribute 'PatientInformation.ethnicGroup' of type 'Code' with cardinality of [1]

Contains the Code Set that identifies the patient's ethnic background.

Attribute 'PatientInformation.patientName' of type 'PersonName' with cardinality of [0..1]

Contains the Patient name

Attribute 'PatientInformation.race' of type 'Code' with cardinality of [1]

Contains the Code Set that identifues the race of the Patient

Attribute 'PatientInformation.zipPlus4' of type 'String' with cardinality of [0..1]

Extension of the five-digit ZIP code providing the US Postal Service ZIP code (ZIP+4)

«deprecated_use_Patient_instead» Class:

PatientLite

A role in which a person acts as a patient within an Act.

Attribute 'PatientLite.identifier' of type 'HL72PersonIdentifier' with cardinality of [1]

Uniquely identifies the person who is acting in the role of patient.

«Role» Class: PharmacyDivision

Identifies a pharmacy location for the purposes of maintaining the NCPDP Id, which is needed for filing pharmacy claims. This is equivalent to File 59 in Vista.

«deprecated_use_IndividualProvider» Class:

PractitionerLite

A role in which a person acts as a practitioner within an Act.

Attribute 'PractitionerLite.identifier' of type ' HL72PersonIdentifier' with cardinality of [0..1]

Uniquely identifies the person who is acting in the role of patient.

Attribute 'PractitionerLite.vpid' of type ' Id' with cardinality of [0..1]

Uniquely identifies the person who is acting in the role of patient.

«Participation» Class:

PractitionerParticipationLite

"An association between an Act and a Role with an Entity playing that Role. Each Entity (in a Role) involved in an Act in a certain way is linked to the act by one Participation-instance." (HL7). This class represents those participations that involve an entity playing the role of Practitioner.

Attribute 'PractitionerParticipationLite.comment' of type 'String' with cardinality of [0..1]

"Contains any comments or notes made by the practitioner in reference to the action in which they participated." (HL7 3.0)

Attribute 'PractitionerParticipationLite.time' of type 'PointInTime' with cardinality of [0..1]

"An interval of time specifying the time during which the participant is involved in the act through this Participation." (HL7 3.0)

«Procedure» Class: Procedure

"An Act whose immediate and primary outcome (post-condition) is the alteration of the physical condition of the subject." - $HL7\ v3$

Attribute 'Procedure.procedureCode' of type 'Code' with cardinality of [1]

Contains a code indicating a procedure or non-procedure event involving the patient. Code may either be Event Capture code or CPT code. (Event Capture code may have 1-1 correspondence to CPT or may have *-1 or no correspondence)

«Place» Class: RoomLocation

Identifies a room in which services may be provided to a patient. This is equivalent to file 405.4 in VistA.

«Role» Class: Sample

The part of a specimen that is used in an actual lab test procedure.

Attribute 'Sample.id' of type ' Id' with cardinality of [1]

A unique identifier for each sample of a specimen, typically unique to the laboratory preparing the sample(s) from the specimen. The identifier is associated with the test procedures and observations performed on the sample.

Attribute 'Sample.sampleCategory' of type 'Code' with cardinality of [1]

The clinically relevant nature of the material used in a procedure. Some examples are: mucus, tissue, blood, stool.

«Role» Class: ServiceDeliveryLocation

"The location to which the patient is assigned. It is a role played by a place at which services may be provided. Note that a single physical place can play multiple service delivery location roles each with its

own attributes. For example, a Podiatry clinic and Research clinic may meet on alternate days in the same physical location; each clinic uses its own mailing address and telephone number." (HL7)

«Organization» Class: ServiceDepartment

An organizational unit defined by the type of service that it provides to patients. Examples include Surgery, Dentistry, Mental Health. This is equivalent to File 49 in Vista.

Attribute 'ServiceDepartment.serviceCode' of type 'Code' with cardinality of [1]

Contains the code set that identifies Service Department

«Organization» Class: Specialty

Provides an indication of the medical specialty of the organization-location. Examples include Allergy, Neurology, Cardiology, etc. This is equivalent to File 42.4 in Vista.

«Role» Class: Specimen

Material obtained from a patient which is the subject of a lab test procedure - such as: tissue, blood, or urine, used for analysis and medical diagnosis.

Attribute 'Specimen.description' of type 'String' with cardinality of [1]

Indicates the specimen description. Added to accommodate imaging requirement. Currently only used by Micro and Imaging.

Attribute 'Specimen.id' of type ' Id' with cardinality of [1]

Contains a unique identifier for the specimen.

Association 'Specimen.sample' of type 'Sample' with cardinality of [*]

The association to the sample linking the sample to the specimen from which sample obtained.

Attribute 'Specimen.snomedCode' of type 'Code' with cardinality of [1]

Describes the snomed codes. Added the attribute based on the vdef-vhim message mapping.

Attribute 'Specimen.specimenCategory' of type 'Code' with cardinality of [1]

The type of material obtained from the patient. Some examples are:mucus, tissue, blood, stool.

Attribute 'Specimen.specimenSource' of type 'Code' with cardinality of [1]

The source or site from where the specimen is obtained, should be obtained or where the service should be performed.

«ControlAct» Class: SuspendAct

Contains information about the placement of an order "on hold".

Attribute 'SuspendAct.comment' of type 'String' with cardinality of [1]

Any comments or remarks regarding the suspension of the Activity or Order.

Attribute 'SuspendAct.dateTime' of type ' PointInTime' with cardinality of [1]

The date/time the Order was suspended.

Attribute 'SuspendAct.reason' of type 'Code' with cardinality of [1]

The reason why the Order was suspended.

«Act» Class: TreatmentFactor

These factors are veteran characteristics that are primarily used to identify veteran's eligibility for co-payment exemption. Eligible veterans will be exempt from co-payments for extended care services, hospital, outpatient, and medications for the treatment of conditions associated with Agent Orange Exposure, Ionizing Radiation Exposure, Persian Gulf Exposure, Head and/or Neck Cancer, Military Sexual Trauma, Combat Veterans, and Shipboard Hazard & Defense. For example if a veteran served in Vietnam and is treated for Diabetes, the clinician should indicate (Using the information provided thru Registration) that care was related to Agent Orange exposure (since Diabetes is presumed to be caused to AO exposure).

Attribute 'TreatmentFactor.factor' of type 'Code' with cardinality of [0..1]

(the question) Categorizes benefit(s) cited for an action. Examples include Agent Orange Exposure, lonizing Radiation Exposure, etc.

Attribute 'TreatmentFactor.factorValue' of type ' Code' with cardinality of [0..1] (the answer)

«Person» Class: VaPersonId

The identification concept for describing the unique VA-wide identifier for a person with some connection to the VA. The identifier is commonly called the VPID. This is a place holder for the attributes that will be added in a later release.

Attribute 'VaPersonId.vpid' of type 'String' with cardinality of [1]

Person related applications and services must be capable of accepting/processing/storing both the short version of a VPID/ICN - 17 character (10-digit sequence + 'V' delimiter + 6-digit checksum) and the

long version - 29 characters (16-digit sequence + 'V' delimiter + 6-digit checksum + 6-digit encryption). Currently the MPI/Person Service uses the short version but applications/services must also be capable of accepting/processing/storing the long version to allow Person Service/MPI to transition to the long format without impact.

«Act» Class: Visit

Contains patient information for the current visit.

Attribute 'Visit.admissionDate' of type ' PointInTime' with cardinality of [0..1]

This attribute contains the date the Patient was admitted for the encounter.

Attribute 'Visit.chargePriceIndicator' of type 'String' with cardinality of [0..1]

Contains the textual description for the Charge Price indication for the patient for this visit.

Attribute 'Visit.dischargeDate' of type 'PointInTime' with cardinality of [0..1]

Contains the date the Patient was discharged for this visit.

Attribute 'Visit.patientClass' of type 'String' with cardinality of [0..1]

Contains the textual description that identifies the class for the patient for this visit.

Attribute 'Visit.patientType' of type 'String' with cardinality of [0..1]

Identifies the type of patient for this patient for this visit.

Attribute 'Visit.servicingFacility' of type 'String' with cardinality of [0..1]

Contains the textual description of the servicing facility for the patient for this visit,

Attribute 'Visit.visitId' of type 'String' with cardinality of [0..1]

Uniques identifier for this visit for the patient

«Place» Class: VisitLocation

The location at which an outpatient visit can take place. This is equivalent to File 9999999.06 in Vista.

«Role» Class: Ward

"1. A room in a hospital usually holding six or more patients. 2. A division in a hospital for the care of a particular group of patients" The American Heritage Stedman's Medical Dictionary. This is equivalent to File 42 in Vista.