ADT Bed Control (Registration Package) Refactoring API

*Release 1.01*

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the Department of Veterans Affairs (VA)

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**Abstract**

As part of the Open Source EHR Refactoring project, we have worked on refactoring the Registration package ADT Bed Control module code. This document is to describe what we have done in term of code changes for all interested stakeholders.

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# Introduction

The overarching goal of any code changes we implement is to make VistA code more modular and readable without altering functionality. To date we worked on Problem List package and Scheduling Appointment Management module which are submitted separately to Technical Journal. We continue with the ADT Bed Control Menu which is in the registration package.

This work exposes Bed Control menu functionality through API entry points. Each API entry point checks various error conditions and otherwise implements the same functionality that exists in the Roll and Scroll Interface with user interaction. Only three variables (DT, U, and DUZ) are assumed in the API code here. The actual database (global) access is also isolated in dedicated routines. All the API entry points that are developed during this refactoring effort are described below.

# Code Walkthrough

Unless otherwise noted all date formats are internal FileMan format (e.g. 3120121 = Jan 21, 2012). Various utility methods to handle internal date format, including conversions from/to human readable forms, are available in http://www.va.gov/vdl/application.asp?appid=10 Kernel Developer’s Guide and Fileman http://www.va.gov/vdl/application.asp?appid=5 Programmer Manual.

## $$ADMIT^DGPMAPI1() – Admit patient

This extrinsic function creates a new admission.

##### Format

$$ADMIT^DGPMAPI1(.RETURN,.PARAM)

##### Input Parameters

.RETURN [Required,Boolean] Set to IEN of the new admission if the update succeeded, 0 otherwise

RETURN(0) – [String] Error code^Text

PARAM(“PATIENT”) [Required,Numeric] Patient IEN

PARAM(“DATE”) [Required, DateTime] Admission date

PARAM(“TYPE”) [Required,Numeric] Admission type (one of the codes returned by LSTADTYP^DGPMAPI7)

PARAM(“ADMREG”) [Required,Numeric] Admitting regulation (one of the codes returned by LSTADREG^DGPMAPI9)

PARAM(“ATNDPHY”) [Required,Numeric] Attending physician (one of the active providers returned by LSTPROV^DGPMAPI9)

PARAM(“FDEXC”) [Required,Boolean] Set to 1 if patient wants to be excluded from Facility Directory for this admission

PARAM(“FTSPEC”) [Required,Numeric] Facility treating specialty (one of the codes returned by LSTFTS^DGPMAPI9)

PARAM(“SHDIAG”) [Required,String] A brief description of the diagnosis (3-30 chars)

PARAM(“WARD”) [Required,Numeric] Ward location (one of the active ward locations returned by LSTWARD^DGPMAPI7)

PARAM(“ADMSCC”) [Optional,Boolean] Set to 1 if patient is admitted for service connected condition

PARAM(“ADMSRC”) [Optional,Numeric] Source of admission (one of the codes returned by LSTADSRC^DGPMAPI7)

PARAM(“ELIGIB”) [Optional,Numeric] Admitting eligibility (one of the patient eligibility code returned by LSTPELIG^DGPMAPI9)

PARAM(“PRYMPHY”) [Optional,Numeric] Primary physician (one of the active providers returned by LSTPROV^DGPMAPI9)

PARAM(“ROOMBED”) [Optional,Numeric] Roombed (one of the active room-bed, assigned to the selected ward location, returned by LSTWBED^DGPMAPI7)

PARAM(“ADMCAT”) [Optional,Numeric] Admitting Category (one of the active Sharing Agreement Sub-Category returned by LSTACAT^DGSAAPI, to add a new Sub-Category use ADDACAT^DGSAAPI)

PARAM(“SCADM”) [Optional,Boolean] Set to 1 if this admission is a result of a previously scheduled admission

PARAM(“DIAG”,#) [Optional,String] Array of diagnoses

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

FILELOCK Record in use. Try again in a few moments.

TIMEUSD There is already a movement at that date/time entered for this patient.

INVPARM Invalid parameter value …

PATNFND Patient not found.

ADMPAHAD Patient already has an active admission.

AREGNFND Admitting regulation not found.

AREGINAC Admitting regulation is inactive.

MVTTNFND Movement type not found.

MVTTINAC Movement type is inactive.

ADMINVAT Invalid admission type.

SHDGINV Invalid diagnosis, must be 3-30 characters long.

WRDNFND Ward not found.

WRDINVGL Ward’s ‘G&L Order’ field is not valid.

WRDINACT Ward is inactive.

BEDNFND Bed not found.

WRDCNASB Ward cannot assign this bed.

BEDINACT Bed is inactive.

BEDOCC Bed is occupied.

SACNFND Sharing Agreement Category not found

ACATINAC Admitting category is inactive.

FTSNFND Facility treating specialty not found.

FTSINAC Facility treating specialty is inactive.

PROVNFND Provider not found.

PROVINAC … is not an active provider.

ASRCNFND Source of admission not found.

## $$UPDADM^DGPMAPI1() – Update patient admission

This extrinsic function updates an existing admission.

##### Format

$$UPDADM^DGPMAPI1(.RETURN,.PARAM,AFN)

##### Input Parameters

.RETURN [Required,Boolean] Set to 1 if the update succeeded, 0 otherwise

RETURN(0) – [String] Error code^Text

PARAM(“DATE”) [Optional, DateTime] Admission date

PARAM(“TYPE”) [Optional,Numeric] Admission type (one of the codes returned by LSTADTYP^DGPMAPI7)

PARAM(“ADMREG”) [Optional,Numeric] Admitting regulation (one of the codes returned by LSTADREG^DGPMAPI9)

PARAM(“ATNDPHY”) [Optional,Numeric] Attending physician (one of the active providers returned by LSTPROV^DGPMAPI9)

PARAM(“FDEXC”) [Optional,Boolean] Set to 1 if patient wants to be excluded from Facility Directory for this admission

PARAM(“FTSPEC”) [Optional,Numeric] Facility treating specialty (one of the codes returned by LSTFTS^DGPMAPI9)

PARAM(“SHDIAG”) [Optional,String] A brief description of the diagnosis (3-30 chars)

PARAM(“WARD”) [Optional,Numeric] Ward location (one of the active ward locations returned by LSTWARD^DGPMAPI7)

PARAM(“ADMSCC”) [Optional,Boolean] Set to 1 if patient is admitted for service connected condition

PARAM(“ADMSRC”) [Optional,Numeric] Source of admission (one of the codes returned by LSTADSRC^DGPMAPI7)

PARAM(“ELIGIB”) [Optional,Numeric] Admitting eligibility (one of the patient eligibility code returned by LSTPELIG^DGPMAPI9)

PARAM(“PRYMPHY”) [Optional,Numeric] Primary physician (one of the active providers returned by LSTPROV^DGPMAPI9)

PARAM(“ROOMBED”) [Optional,Numeric] Roombed (one of the active room-bed, assigned to the selected ward location, returned by LSTWBED^DGPMAPI7)

PARAM(“ADMCAT”) [Optional,Numeric] Admitting Category (one of the active Sharing Agreement Sub-Category returned by LSTACAT^DGSAAPI, to add a new Sub-Category use ADDACAT^DGSAAPI)

PARAM(“SCADM”) [Optional,Boolean] Set to 1 if this admission is a result of a previously scheduled admission

PARAM(“DIAG”,#) [Optional,String] Array of the diagnosis

AFN [Required,Numeric] Admission IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

FILELOCK Record in use. Try again in a few moments.

INVPARM Invalid parameter value …

ADMNFND Admission not found.

ADMMBBNM There is a … movement on file for this patient on …

AREGNFND Admitting regulation not found.

AREGINAC Admitting regulation is inactive.

MVTTNFND Movement type not found.

MVTTINAC Movement type is inactive.

ADMINVAT Invalid admission type.

SHDGINV Invalid diagnosis, must be 3-30 characters long.

WRDNFND Ward not found.

WRDINVGL Ward’s ‘G&L Order’ field is not valid.

WRDINACT Ward is inactive.

BEDNFND Bed not found.

SACNFND Sharing Agreement Category not found

ACATINAC Admitting category is inactive.

WRDCNASB Ward cannot assign this bed.

BEDINACT Bed is inactive.

BEDOCC Bed is occupied.

FTSNFND Facility treating specialty not found.

FTSINAC Facility treating specialty is inactive.

PROVNFND Provider not found.

PROVINAC … is not an active provider.

ASRCNFND Source of admission not found.

## $$DELADM^DGPMAPI1() – Delete patient admission

This extrinsic function deletes an existing admission.

##### Format

$$DELADM^DGPMAPI1(.RETURN,AFN)

##### Input Parameters

.RETURN [Required,Boolean] Set to 1 if the update succeeded, 0 otherwise

RETURN(0) – [String] Error code^Text

AFN [Required,Numeric] Admission IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

FILELOCK Record in use. Try again in a few moments.

INVPARM Invalid parameter value …

ADMNFND Admission not found.

CANDASIH Cannot delete before ASIH transfer are removed.

CANMDDF Must delete discharge first.

CANDWPTF Cannot delete while PTF Census record … is closed.

## $$TRANSF^DGPMAPI2() – Transfer patient

This extrinsic function creates a new transfer and the corresponding movements depending on movement type.

##### Format

$$TRANSF^DGPMAPI2(.RETURN,.PARAM)

##### Input Parameters

.RETURN [Required,Boolean] Set to IEN of the new transfer if the update succeeded, 0 otherwise

RETURN(0) – [String] Error code^Text

PARAM(“ADMIFN”) [Required,Numeric] Admission IEN

PARAM(“DATE”) [Required, DateTime] Transfer date

PARAM(“TYPE”) [Required,Numeric] Transfer type (one of the codes returned by LSTTRTYP^DGPMAPI7)

Depending on movement type will accept the following parameters:

If movement type is ‘INTERWARD TRANSFER’:

PARAM(“WARD”) [Required,Numeric] Ward location (one of the active ward locations returned by LSTWARD^DGPMAPI7)

PARAM(“ROOMBED”) [Optional,Numeric] Roombed (one of the active room-bed, assigned to the selected ward location, returned by LSTWBED^DGPMAPI7)

PARAM(“FTSPEC”) [Optional,Numeric] Facility treating specialty (one of the codes returned by LSTFTS^DGPMAPI9)

PARAM(“ATNDPHY”) [Optional,Numeric] Attending physician (one of the active providers returned by LSTPROV^DGPMAPI9)

PARAM(“PRYMPHY”) [Optional,Numeric] Primary physician (one of the active providers returned by LSTPROV^DGPMAPI9)

PARAM(“DIAG”,#) [Optional,String] Array of the diagnosis

If movement type is ‘TO ASIH’:

PARAM(“WARD”) [Required,Numeric] Ward location (one of the active ward locations returned by LSTWARD^DGPMAPI7)

PARAM(“ROOMBED”) [Optional,Numeric] Roombed (one of the active room-bed, assigned to the selected ward location, returned by LSTWBED^DGPMAPI7)

PARAM(“FDEXC”) [Required,Boolean] Set to 1 if patient wants to be excluded from Facility Directory for this admission

PARAM(“ADMREG”) [Required,Numeric] Admitting regulation (one of the codes returned by LSTADREG^DGPMAPI9)

PARAM(“SHDIAG”) [Required,String] A brief description of the diagnosis (3-30 chars)

PARAM(“FTSPEC”) [Required,Numeric] Facility treating specialty (one of the codes returned by LSTFTS^DGPMAPI9)

PARAM(“ATNDPHY”) [Required,Numeric] Attending physician (one of the active providers returned by LSTPROV^DGPMAPI9)

PARAM(“ADMSCC”) [Optional,Boolean] Set to 1 if patient is admitted for service connected condition

PARAM(“ADMSRC”) [Optional,Numeric] Source of admission (one of the codes returned by LSTADSRC^DGPMAPI7)

PARAM(“PRYMPHY”) [Optional,Numeric] Primary physician (one of the active providers returned by LSTPROV^DGPMAPI9)

PARAM(“DIAG”,#) [Optional,String] Array of the diagnosis

If movement type is ‘AUTHORIZED ABSENCE’, ‘UNAUTHORIZED ABSENCE’ or ‘AUTH ABSENCE 96 HOURS OR LESS’:

PARAM(“RABSDT”) [Optional,Numeric] Absence return date

If movement type is ‘FROM UNAUTHORIZED ABSENCE’, ‘FROM AUTHORIZED ABSENCE’ or ‘FROM AUTH. ABSENCE OF 96 HOURS OR LESS’:

PARAM(“ROOMBED”) [Optional,Numeric] Roombed (one of the active room-bed, assigned to the selected ward location, returned by LSTWBED^DGPMAPI7)

PARAM(“FTSPEC”) [Required,Numeric] Facility treating specialty (one of the codes returned by LSTFTS^DGPMAPI9)

PARAM(“ATNDPHY”) [Required,Numeric] Attending physician (one of the active providers returned by LSTPROV^DGPMAPI9)

PARAM(“PRYMPHY”) [Optional,Numeric] Primary physician (one of the active providers returned by LSTPROV^DGPMAPI9)

PARAM(“DIAG”,#) [Optional,String] Array of the diagnosis

If movement type is ‘FROM AUTHORIZED TO UNAUTHORIZED ABSENCE’ or ‘FROM UNAUTHORIZED TO AUTHORIZED ABSENCE’:

If movement type is ‘TO ASIH (OTHER FACILITY)’, ‘CHANGE ASIH LOCATION (OTHER FACILITY)’:

PARAM(“FCTY”) [Required,Numeric] Transfer facility (one of the codes returned by LSTFCTY^DGPMAPI7)

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

FILELOCK Record in use. Try again in a few moments.

INVPARM Invalid parameter value …

TIMEUSD There is already a movement at that date/time entered for this patient.

TRANBADM Not before admission movement.

TRANADIS Not after discharge movement.

MVTTNFND Movement type not found.

MVTTINAC Movement type is inactive.

TRAINVAT Invalid transfer type.

ADMPAHAD Patient already has an active admission.

AREGNFND Admitting regulation not found.

AREGINAC Admitting regulation is inactive.

SHDGINV Invalid diagnosis, must be 3-30 characters long.

WRDNFND Ward not found.

WRDINVGL Ward’s ‘G&L Order’ field is not valid.

WRDINACT Ward is inactive.

BEDNFND Bed not found.

BEDINACT Bed is inactive.

BEDOCC Bed is occupied.

FTSNFND Facility treating specialty not found.

FTSINAC Facility treating specialty is inactive.

PROVNFND Provider not found.

PROVINAC … is not an active provider.

ASRCNFND Source of admission not found.

ASHWINVS Invalid ward service for this type of movement

TFCNFND Transfer facility not found.

TFCINAC Transfer facility is inactive.

## $$UPDTRA^DGPMAPI2() – Update transfer

This extrinsic function updates an existing transfer.

##### Format

$$UPDTRA^DGPMAPI2(.RETURN,.PARAM,TFN)

##### Input Parameters

.RETURN [Required,Boolean] Set to 1 if the update succeeded, 0 otherwise

RETURN(0) – [String] Error code^Text

PARAM(“DATE”) [Optional, DateTime] Transfer date

PARAM(“TYPE”) [Optional,Numeric] Transfer type (one of the codes returned by LSTTRTYP^DGPMAPI7)

PARAM(“WARD”) [Optional,Numeric] Ward location (one of the active ward locations returned by LSTWARD^DGPMAPI7)

PARAM(“ROOMBED”) [Optional,Numeric] Roombed (one of the active room-bed, assigned to the selected ward location, returned by LSTWBED^DGPMAPI7)

PARAM(“FTSPEC”) [Optional,Numeric] Facility treating specialty (one of the codes returned by LSTFTS^DGPMAPI9)

PARAM(“ATNDPHY”) [Optional,Numeric] Attending physician (one of the active providers returned by LSTPROV^DGPMAPI9)

PARAM(“PRYMPHY”) [Optional,Numeric] Primary physician (one of the active providers returned by LSTPROV^DGPMAPI9)

PARAM(“DIAG”,#) [Optional,String] Array of the diagnosis

TFN [Required,Numeric] Transfer IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

FILELOCK Record in use. Try again in a few moments.

INVPARM Invalid parameter value …

TRANFND Transfer not found.

TRANBADM Not before admission movement.

TRANADIS Not after discharge movement.

MVTTNFND Movement type not found.

MVTTINAC Movement type is inactive.

TRAINVAT Invalid transfer type.

WRDNFND Ward not found.

WRDINVGL Ward’s ‘G&L Order’ field is not valid.

WRDINACT Ward is inactive.

BEDNFND Bed not found.

BEDINACT Bed is inactive.

BEDOCC Bed is occupied.

FTSNFND Facility treating specialty not found.

FTSINAC Facility treating specialty is inactive.

PROVNFND Provider not found.

PROVINAC … is not an active provider.

## $$DELTRA^DGPMAPI2() – Delete transfer

This extrinsic function deletes an existing transfer.

##### Format

$$DELTRA^DGPMAPI2(.RETURN,TFN)

##### Input Parameters

.RETURN [Required,Boolean] Set to 1 if the update succeeded, 0 otherwise

RETURN(0) – [String] Error code^Text

TFN [Required,Numeric] Transfer IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

FILELOCK Record in use. Try again in a few moments.

TRANFND Transfer not found.

DELTMDTA Must delete through corresponding hospital admission

DELTCDWD Cannot delete while discharge exists

DELTCDPC Cannot delete when corresponding admission PTF closed out

DELTMMRF … movement must be removed first

## $$DISCH^DGPMAPI3() – Discharge patient

This extrinsic function creates a new discharge.

##### Format

$$DISCH^DGPMAPI3(.RETURN,.PARAM)

##### Input Parameters

.RETURN [Required,Boolean] Set to IEN of the new discharge if the update succeeded, 0 otherwise

RETURN(0) – [String] Error code^Text

PARAM(“DATE”) [Required, DateTime] Discharge date

PARAM(“TYPE”) [Required,Numeric] Discharge type (one of the codes returned by LSTDTYP^DGPMAPI7)

PARAM(“ADMIFN”) [Required,Numeric] Admission IEN

If the movement type’s field ‘ask specialty at movement’ is set to 1:

PARAM(“FCTY”) [Required,Numeric] Transfer facility (one of the codes returned by LSTFCTY^DGPMAPI7)

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

FILELOCK Record in use. Try again in a few moments.

INVPARM Invalid parameter value …

ADMNFND Admission not found.

TIMEUSD There is already a movement at that date/time entered for this patient.

DCHPADON Patient already discharged on...

TRANBADM Not before admission movement

DCHNBLM Not before last movement

DSCNMVTD There is no movement type define for …

MVTTNFND Movement type not found.

MVTTINAC Movement type is inactive.

DISINVAT Invalid discharge type.

## $$UPDDSCH^DGPMAPI3() – Update discharge

This extrinsic function updates an existing discharge.

##### Format

$$UPDDSCH^DGPMAPI3(.RETURN,.PARAM,DMFN)

##### Input Parameters

.RETURN [Required,Boolean] Set to 1 if the update succeeded, 0 otherwise

RETURN(0) – [String] Error code^Text

PARAM(“DATE”) [Required, DateTime] Discharge date

PARAM(“TYPE”) [Required,Numeric] Discharge type (one of the codes returned by LSTDTYP^DGPMAPI7)

DMFN [Required,Numeric] Discharge IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

FILELOCK Record in use. Try again in a few moments.

TIMEUSD There is already a movement at that date/time entered for this patient.

DCHNFND Discharge not found.

DCHNBLM Not before last movement

INVPARM Invalid parameter value …

MVTTNFND Movement type not found.

MVTTINAC Movement type is inactive.

DISINVAT Invalid discharge type.

## $$DELDSCH^DGPMAPI3() – Delete discharge

This extrinsic function deletes an existing discharge.

##### Format

$$DELDSCH^DGPMAPI3(.RETURN,DMFN)

##### Input Parameters

.RETURN [Required,Boolean] Set to 1 if the update succeeded, 0 otherwise

RETURN(0) – [String] Error code^Text

DMFN [Required,Numeric] Discharge IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

FILELOCK Record in use. Try again in a few moments.

DCHNFND Discharge not found.

DCHCDWAH You can not delete a WHILE ASIH type discharge

DCHDTCNH Delete through corresponding NHCU/DOM movements

DCHCDOLA Can only delete discharge for last admission

DCHDODLM You can only remove a discharge when it is the last movement for the patient.

DCHMDHDF You must delete the hospital discharge first.

## $$LDGIN^DGPMAPI4() – Check-in Lodger

This extrinsic function creates a new check-in movement.

##### Format

$$LDGIN^DGPMAPI4(.RETURN,.PARAM)

##### Input Parameters

.RETURN [Required,Boolean] Set to IEN of the new check-in if the update succeeded, 0 otherwise

RETURN(0) – [String] Error code^Text

PARAM(“PATIENT”) [Required,Numeric] Patient IEN

PARAM(“DATE”) [Required, DateTime] Check-in date

PARAM(“TYPE”) [Required,Numeric] Check-in type (one of the codes returned by LSTCITYP^DGPMAPI7)

PARAM(“LDGRSN”) [Required,Numeric] Reason for check-in (one of the codes returned by LSTLRSN^DGPMAPI7)

PARAM(“LDGCOMM”) [Optional,String] Additional check-in comment.

Depending on the MAS movement type of the check-in type will accept the following parameters:

If MAS movement type is ‘CHECK-IN LODGER’:

PARAM(“WARD”) [Required,Numeric] Ward location (one of the active ward locations returned by LSTWARD^DGPMAPI7)

PARAM(“ROOMBED”) [Optional,Numeric] Roombed (one of the active room-bed, assigned to the selected ward location, returned by LSTWBED^DGPMAPI7)

If MAS movement type is ‘CHECK-IN LODGER (OTHER FACILITY)’:

PARAM(“FCTY”) [Required,Numeric] Transfer facility (one of the codes returned by LSTFCTY^DGPMAPI7)

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

FILELOCK Record in use. Try again in a few moments.

TIMEUSD There is already a movement at that date/time entered for this patient.

INVPARM Invalid parameter value …

PATNFND Patient not found.

LDGPINP Patient is an inpatient… you can not a lodger movement!

LDGPALD Patient is already a lodger

ADMMBBNM  There is a … movement on file for this patient on ….

MVTTNFND Movement type not found.

MVTTINAC Movement type is inactive.

ADMINVAT Invalid check-in type.

SHDGINV Invalid diagnosis, must be 3-30 characters long.

WRDNFND Ward not found.

WRDINVGL Ward’s ‘G&L Order’ field is not valid.

WRDINACT Ward is inactive.

BEDNFND Bed not found.

WRDCNASB Ward cannot assign this bed.

BEDINACT Bed is inactive.

BEDOCC Bed is occupied.

TFCNFND Transfer facility not found.

TFCINAC Transfer facility is inactive.

RSNNFND Reason for lodging not found.

## $$UPDLDGIN^DGPMAPI4() – Update check-in movement

This extrinsic function updates an existing check-in movement.

##### Format

$$UPDLDGIN^DGPMAPI4(.RETURN,.PARAM,AFN)

##### Input Parameters

.RETURN [Required,Boolean] Set to 1 if the update succeeded, 0 otherwise

RETURN(0) – [String] Error code^Text

PARAM(“DATE”) [Optional, DateTime] Check-in date

PARAM(“TYPE”) [Optional,Numeric] Check-in type (one of the codes returned by LSTCITYP^DGPMAPI7)

PARAM(“LDGRSN”) [Optional,Numeric] Reason for check-in (one of the codes returned by LSTLRSN^DGPMAPI7)

PARAM(“LDGCOMM”) [Optional,String] Additional check-in comment.

Depending on the MAS movement type of the check-in type will accept the following parameters:

If MAS movement type is ‘CHECK-IN LODGER’:

PARAM(“WARD”) [Optional,Numeric] Ward location (one of the active ward locations returned by LSTWARD^DGPMAPI7)

PARAM(“ROOMBED”) [Optional,Numeric] Roombed (one of the active room-bed, assigned to the selected ward location, returned by LSTWBED^DGPMAPI7)

If MAS movement type is ‘CHECK-IN LODGER (OTHER FACILITY)’:

PARAM(“FCTY”) [Optional,Numeric] Transfer facility (one of the codes returned by LSTFCTY^DGPMAPI7)

AFN [Required,Numeric] Check-in IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

FILELOCK Record in use. Try again in a few moments.

MVTNFND Movement not found.

TIMEUSD There is already a movement at that date/time entered for this patient.

INVPARM Invalid parameter value …

ADMMBBNM  There is a … movement on file for this patient on ….

MVTTNFND Movement type not found.

MVTTINAC Movement type is inactive.

ADMINVAT Invalid check-in type.

SHDGINV Invalid diagnosis, must be 3-30 characters long.

WRDNFND Ward not found.

WRDINVGL Ward’s ‘G&L Order’ field is not valid.

WRDINACT Ward is inactive.

BEDNFND Bed not found.

WRDCNASB Ward cannot assign this bed.

BEDINACT Bed is inactive.

BEDOCC Bed is occupied.

TFCNFND Transfer facility not found.

TFCINAC Transfer facility is inactive.

RSNNFND Reason for lodging not found.

## $$DELLDGIN^DGPMAPI4() – Delete check-in movement

This extrinsic function deletes an existing check-in movement.

##### Format

$$DELLDGIN^DGPMAPI4(.RETURN,AFN)

##### Input Parameters

.RETURN [Required,Boolean] Set to 1 if the update succeeded, 0 otherwise

RETURN(0) – [String] Error code^Text

AFN [Required,Numeric] Check-in movement IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

FILELOCK Record in use. Try again in a few moments.

MVTNFND Movement not found.

## $$LDGOUT^DGPMAPI5() – Lodger Check-out

This extrinsic function creates a new lodger check-out movement.

##### Format

$$LDGOUT^DGPMAPI5(.RETURN,.PARAM)

##### Input Parameters

.RETURN [Required,Boolean] Set to IEN of the new check-out if the update succeeded, 0 otherwise

RETURN(0) – [String] Error code^Text

PARAM(“ADMIFN”) [Required,Numeric] Check-in movement IEN

PARAM(“DATE”) [Required, DateTime] Check-out date

PARAM(“TYPE”) [Optional,Numeric] Check-out type (one of the codes returned by LSTCOTYP^DGPMAPI7)

PARAM(“LDGDISP”) [Required,String] Check-out disposition (one of the codes returned by LSTLDIS^DGPMAPI7)

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

FILELOCK Record in use. Try again in a few moments.

TIMEUSD There is already a movement at that date/time entered for this patient.

INVPARM Invalid parameter value …

MVTNFND Movement not found.

DCHPADON Patient already discharged on…

TRANBADM Not before check-in movement!

DCHNBLM Not before last movement

MVTTNFND Movement type not found.

MVTTINAC Movement type is inactive.

ADMINVAT Invalid check-out type.

## $$UPDLDGOU^DGPMAPI5() – Update check-out movement

This extrinsic function updates an existing check-out movement.

##### Format

$$UPDLDGOU^DGPMAPI5(.RETURN,.PARAM,COFN)

##### Input Parameters

.RETURN [Required,Boolean] Set to 1 if the update succeeded, 0 otherwise

RETURN(0) – [String] Error code^Text

PARAM(“DATE”) [Optional, DateTime] Check-out date

PARAM(“TYPE”) [Optional,Numeric] Check-out type (one of the codes returned by LSTCOTYP^DGPMAPI7)

PARAM(“LDGDISP”) [Optional,String] Check-out disposition (one of the codes returned by LSTLDIS^DGPMAPI7)

COFN [Required,Numeric] Check-out IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

FILELOCK Record in use. Try again in a few moments.

MVTNFND Movement not found.

TIMEUSD There is already a movement at that date/time entered for this patient.

INVPARM Invalid parameter value …

ADMMBBNM  There is a … movement on file for this patient on ….

TRANBADM Not before check-in movement

MVTTNFND Movement type not found.

MVTTINAC Movement type is inactive.

ADMINVAT Invalid check-in type.

## $$DELLDGOU^DGPMAPI5() – Delete check-out movement

This extrinsic function deletes an existing check-out movement.

##### Format

$$DELLDGOU^DGPMAPI5(.RETURN,COFN)

##### Input Parameters

.RETURN [Required,Boolean] Set to 1 if the update succeeded, 0 otherwise

RETURN(0) – [String] Error code^Text

COFN [Required,Numeric] Check-out movement IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

FILELOCK Record in use. Try again in a few moments.

MVTNFND Movement not found.

DCHCDOLA Can only delete check-out for last check-in.

DCHDODLM You can only remove a check-out when it is the last movement for the patient

## $$FTS^DGPMAPI6() – Treating specialty transfer

This extrinsic function creates a new treating specialty transfer.

##### Format

$$FTS^DGPMAPI6(.RETURN,.PARAM)

##### Input Parameters

.RETURN [Required,Boolean] Set to IEN of the new transfer if the update succeeded, 0 otherwise

RETURN(0) – [String] Error code^Text

PARAM(“ADMIFN”) [Required,Numeric] Admission IEN

PARAM(“DATE”) [Required, DateTime] Treating specialty transfer date

PARAM(“ATNDPHY”) [Required,Numeric] Attending physician (one of the active providers returned by LSTPROV^DGPMAPI9)

PARAM(“FTSPEC”) [Required,Numeric] Facility treating specialty (one of the codes returned by LSTFTS^DGPMAPI9)

PARAM(“PRYMPHY”) [Optional,Numeric] Primary physician (one of the active providers returned by LSTPROV^DGPMAPI9)

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

FILELOCK Record in use. Try again in a few moments.

TIMEUSD There is already a movement at that date/time entered for this patient.

INVPARM Invalid parameter value …

MVTNFND Movement not found.

TRANBADM Not before admission movement.

TRANADIS Not after discharge movement.

FTSNFND Facility treating specialty not found.

FTSINAC Facility treating specialty is inactive.

PROVNFND Provider not found.

PROVINAC … is not an active provider.

## $$UPDFTS^DGPMAPI6() – Update treating specialty transfer

This extrinsic function updates an existing treating specialty transfer.

##### Format

$$UPDFTS^DGPMAPI6(.RETURN,.PARAM,MFN)

##### Input Parameters

.RETURN [Required,Boolean] Set to 1 if the update succeeded, 0 otherwise

RETURN(0) – [String] Error code^Text

PARAM(“DATE”) [Required, DateTime] Treating specialty transfer date

PARAM(“ATNDPHY”) [Required,Numeric] Attending physician (one of the active providers returned by LSTPROV^DGPMAPI9)

PARAM(“FTSPEC”) [Required,Numeric] Facility treating specialty (one of the codes returned by LSTFTS^DGPMAPI9)

PARAM(“PRYMPHY”) [Optional,Numeric] Primary physician (one of the active providers returned by LSTPROV^DGPMAPI9)

MFN [Required,Numeric] Treating specialty transfer IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

FILELOCK Record in use. Try again in a few moments.

MVTNFND Movement not found.

TIMEUSD There is already a movement at that date/time entered for this patient.

INVPARM Invalid parameter value …

TRANBADM Not before admission movement.

TRANADIS Not after discharge movement.

FTSNFND Facility treating specialty not found.

FTSINAC Facility treating specialty is inactive.

PROVNFND Provider not found.

PROVINAC … is not an active provider.

## $$PROVCH^DGPMAPI6() – Provider change

This extrinsic function creates a new provider change transfer.

##### Format

$$PROVCH^DGPMAPI6(.RETURN,.PARAM)

##### Input Parameters

.RETURN [Required,Boolean] Set to IEN of the new transfer if the update succeeded, 0 otherwise

RETURN(0) – [String] Error code^Text

PARAM(“ADMIFN”) [Required,Numeric] Admission IEN

PARAM(“DATE”) [Required, DateTime] Provider change date

PARAM(“ATNDPHY”) [Required,Numeric] Attending physician (one of the active providers returned by LSTPROV^DGPMAPI9)

PARAM(“PRYMPHY”) [Optional,Numeric] Primary physician (one of the active providers returned by LSTPROV^DGPMAPI9)

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

FILELOCK Record in use. Try again in a few moments.

TIMEUSD There is already a movement at that date/time entered for this patient.

INVPARM Invalid parameter value …

MVTNFND Movement not found.

TRANBADM Not before admission movement.

TRANADIS Not after discharge movement.

PROVNFND Provider not found.

PROVINAC … is not an active provider.

## $$UPDPC^DGPMAPI6() – Update provider change transfer

This extrinsic function updates an existing provider change transfer.

##### Format

$$UPDPC^DGPMAPI6(.RETURN,.PARAM,MFN)

##### Input Parameters

.RETURN [Required,Boolean] Set to 1 if the update succeeded, 0 otherwise

RETURN(0) – [String] Error code^Text

PARAM(“DATE”) [Required, DateTime] Provider change date

PARAM(“ATNDPHY”) [Required,Numeric] Attending physician (one of the active providers returned by LSTPROV^DGPMAPI9)

PARAM(“PRYMPHY”) [Optional,Numeric] Primary physician (one of the active providers returned by LSTPROV^DGPMAPI9)

MFN [Required,Numeric] Provider change transfer IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

FILELOCK Record in use. Try again in a few moments.

MVTNFND Movement not found.

TIMEUSD There is already a movement at that date/time entered for this patient.

INVPARM Invalid parameter value …

TRANBADM Not before admission movement.

TRANADIS Not after discharge movement.

PROVNFND Provider not found.

PROVINAC … is not an active provider.

## $$DELFTS^DGPMAPI6() – Delete specialty transfer

This extrinsic function deletes an existing specialty transfer (treating specialty transfer or provider change movement).

##### Format

$$DELFTS^DGPMAPI5(.RETURN,MFN)

##### Input Parameters

.RETURN [Required,Boolean] Set to 1 if the update succeeded, 0 otherwise

RETURN(0) – [String] Error code^Text

MFN [Required,Numeric] Specialty transfer IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

FILELOCK Record in use. Try again in a few moments.

RPMNFND Related physical movement not found.

CANDRPM You are not allowed to delete a specialty transfer that is assoicated with the initial admission movement.

## $$LSTLDIS^DGPMAPI7() - List check-out disposition types

This extrinsic function returns a list of check-out disposition types.

##### Format

$$LSTLDIS^DGPMAPI7(.RETURN)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

                                   RETURN(0) – [Numeric] # of entries found

                                   RETURN(#) – [String] code^display\_name

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

None

## $$LSTPROV^DGPMAPI9() - List active providers filtered by name

This extrinsic function returns a list of active providers on specified date. The list can be filtered by name.

##### Format

$$LSTPROV^DGPMAPI9(.RETURN,SEARCH,START,NUMBER,DGDT)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

                                    RETURN(0) – [String] # of entries found^maximum requested^any more?^flags

(consistent with LIST^DIC header node)

                                    RETURN(#,”ID”) – [Numeric] Provider IEN

                                    RETURN(#,”NAME”) – [String] Provider name

                                    RETURN(#,”INITIAL”) – [String] Provider initials

                                    RETURN(#,”TITLE”) – [String] Provider title

SEARCH                    [Optional,String] Partial match restriction. Default: All entries

START                       [Optional,String] The entry from which to begin the list. Default: “”

NUMBER                  [Optional,Numeric] Number of entries to return. Default: All entries

DGDT [Optional, DateTime] if not set returns active providers for today otherwise for specified date

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value - DGDT

## $$LSTADREG^DGPMAPI9() - List admitting regulations filtered by name

This extrinsic function returns a list of admitting regulations. The list can be filtered by name.

##### Format

$$LSTADREG^DGPMAPI9(.RETURN,SEARCH,START,NUMBER)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

                                    RETURN(0) – [String] # of entries found^maximum requested^any more?^flags

(consistent with LIST^DIC header node)

                                    RETURN(#,”ID”) – [Numeric] Admitting regulation IEN

                                    RETURN(#,”NAME”) – [String] Admitting regulation name

                                    RETURN(#,”CFR”) – [String] Admitting regulation code

SEARCH                    [Optional,String] Partial match restriction. Default: All entries

START [Optional,String] The entry from which to begin the list. Default: “”

NUMBER                  [Optional,Numeric] Number of entries to return. Default: All entries

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

None

## $$LSTFTS^DGPMAPI9() - List active facility treating specialties filtered by name

This extrinsic function returns a list of active facility treating specialties. The list can be filtered by name.

##### Format

$$LSTFTS^DGPMAPI9(.RETURN,SEARCH,START,NUMBER,DGDT)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

                                    RETURN(0) – [String] # of entries found^maximum requested^any more?^flags

(consistent with LIST^DIC header node)

                                    RETURN(#,”ID”) – [Numeric] Facility treating specialty IEN

                                    RETURN(#,”NAME”) – [String] Facility treating specialty name

                                    RETURN(#,”SPEC”) – [String] Specialty IEN^specialty name

SEARCH                    [Optional,String] Partial match restriction. Default: All entries

START [Optional,String] The entry from which to begin the list. Default: “”

NUMBER                  [Optional,Numeric] Number of entries to return. Default: All entries

DGDT [Optional, DateTime] if not set returns active facility treating specialties for today otherwise for specified date

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value - DGDT

## $$LSTADSRC^DGPMAPI7() - List sources of admission filtered by name or by code

This extrinsic function returns a list of sources of admission. The list can be filtered by name or by code.

##### Format

$$LSTADSRC^DGPMAPI7(.RETURN,SEARCH,START,NUMBER)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

                                    RETURN(0) – [String] # of entries found^maximum requested^any more?^flags

(consistent with LIST^DIC header node)

                                    RETURN(#,”ID”) – [Numeric] Source of admission IEN

                                    RETURN(#,”CODE”) – [String] Source of admission PTF code

                                    RETURN(#,”NAME”) – [String] Source of admission name

                                    RETURN(#,”PLACE”) – [String] Source of admission place (internal^external format)

SEARCH                    [Optional,String] Partial match restriction. Default: All entries

START [Optional,String] The entry from which to begin the list. Default: “”

NUMBER                  [Optional,Numeric] Number of entries to return. Default: All entries

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

None

## $$LSTADTYP^DGPMAPI7() - List admission types filtered by name

This extrinsic function returns a list of available admission types for a patient at a time. The list can be filtered by name.

##### Format

$$LSTADTYP^DGPMAPI7(.RETURN,SEARCH,START,NUMBER,DFN,DGDT,MFN)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

                                    RETURN(0) – [String] # of entries found^maximum requested^any more?^flags

(consistent with LIST^DIC header node)

                                    RETURN(#,”ID”) – [Numeric] Admission type IEN

                                    RETURN(#,”NAME”) – [String] Admission type name

                                    RETURN(#,”TYPE”) – [Numeric] Transaction type IEN^transaction type name

                                    RETURN(#,”STATUS”) – [Boolean] Admission type status^display name

SEARCH                    [Optional,String] Partial match restriction. Default: All entries

START                       [Optional,String] The entry from which to begin the list. Default: “”

NUMBER                  [Optional,Numeric] Number of entries to return. Default: All entries

DFN                        [Required,Numeric] Patient IEN

DGDT [Optional,DateTime] if not set returns the list of today’s available admission types for specified patient, otherwise on specified date

MFN [Optional,Numeric] Admission IEN. If is set returns the list of possible admission types for an existing admission

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value …

PATNFND Patient not found.

MVTNFND Movement not found.

## $$LSTTRTYP^DGPMAPI7() - List transfer types filtered by name

This extrinsic function returns a list of available transfer types for a patient at a time. The list can be filtered by name.

##### Format

$$LSTTRTYP^DGPMAPI7(.RETURN,SEARCH,START,NUMBER,DFN,DGDT,MFN)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

                                    RETURN(0) – [String] # of entries found^maximum requested^any more?^flags

(consistent with LIST^DIC header node)

                                    RETURN(#,”ID”) – [Numeric] Transfer type IEN

                                    RETURN(#,”NAME”) – [String] Transfer type name

                                    RETURN(#,”TYPE”) – [Numeric] Transaction type IEN^transaction type name

                                    RETURN(#,”STATUS”) – [Boolean] Transfer type status^display name

SEARCH                    [Optional,String] Partial match restriction. Default: All entries

START [Optional,String] The entry from which to begin the list. Default: “”

NUMBER                  [Optional,Numeric] Number of entries to return. Default: All entries

DFN                        [Required,Numeric] Patient IEN

DGDT [Optional,DateTime] if not set returns the list of today’s available transfer types for specified patient, otherwise on specified date

MFN [Optional,Numeric] Transfer IEN. If is set returns the list of possible transfer types for an existing transfer

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value …

PATNFND Patient not found.

MVTNFND Movement not found.

## $$LSTDTYP^DGPMAPI7() - List discharge types filtered by name

This extrinsic function returns a list of available discharge types for a patient at a time. The list can be filtered by name.

##### Format

$$LSTDTYP^DGPMAPI7(.RETURN,SEARCH,START,NUMBER,DFN,DGDT,MFN)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

                                    RETURN(0) – [String] # of entries found^maximum requested^any more?^flags

(consistent with LIST^DIC header node)

                                    RETURN(#,”ID”) – [Numeric] Discharge type IEN

                                    RETURN(#,”NAME”) – [String] Discharge type name

                                    RETURN(#,”TYPE”) – [Numeric] Transaction type IEN^transaction type name

                                    RETURN(#,”STATUS”) – [Boolean] Discharge type status^display name

SEARCH                    [Optional,String] Partial match restriction. Default: All entries

START                       [Optional,String] The entry from which to begin the list. Default: “”

NUMBER                  [Optional,Numeric] Number of entries to return. Default: All entries

DFN                        [Required,Numeric] Patient IEN

DGDT [Optional,DateTime] if not set returns the list of today’s available discharge types for specified patient, otherwise on specified date

MFN [Optional,Numeric] Discharge IEN. If is set returns the list of possible discharge types for an existing discharge

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value …

PATNFND Patient not found.

MVTNFND Movement not found.

## $$LSTCITYP^DGPMAPI7() - List check-in types filtered by name

This extrinsic function returns a list of available check-in types for a patient at a time. The list can be filtered by name.

##### Format

$$LSTCITYP^DGPMAPI7(.RETURN,SEARCH,START,NUMBER,DFN,DGDT,MFN)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

                                    RETURN(0) – [String] # of entries found^maximum requested^any more?^flags

(consistent with LIST^DIC header node)

                                    RETURN(#,”ID”) – [Numeric] Admission type IEN

                                    RETURN(#,”NAME”) – [String] Admission type name

                                    RETURN(#,”TYPE”) – [Numeric] Transaction type IEN^transaction type name

                                    RETURN(#,”STATUS”) – [Boolean] Check-in type status^display name

SEARCH                    [Optional,String] Partial match restriction. Default: All entries

START                       [Optional,String] The entry from which to begin the list. Default: “”

NUMBER                  [Optional,Numeric] Number of entries to return. Default: All entries

DFN                        [Required,Numeric] Patient IEN

DGDT [Optional,DateTime] if not set returns the list of today’s available check-in types for specified patient, otherwise on specified date

MFN [Optional,Numeric] Check-in IEN. If is set returns the list of possible check-in types for an existing check-in movement

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value …

PATNFND Patient not found.

MVTNFND Movement not found.

## $$LSTCOTYP^DGPMAPI7() - List check-out types filtered by name

This extrinsic function returns a list of available check-out types for a patient at a time. The list can be filtered by name.

##### Format

$$LSTCOTYP^DGPMAPI7(.RETURN,SEARCH,START,NUMBER,DFN,DGDT,MFN)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

                                    RETURN(0) – [String] # of entries found^maximum requested^any more?^flags

(consistent with LIST^DIC header node)

                                    RETURN(#,”ID”) – [Numeric] Admission type IEN

                                    RETURN(#,”NAME”) – [String] Admission type name

                                    RETURN(#,”TYPE”) – [Numeric] Transaction type IEN^transaction type name

                                    RETURN(#,”STATUS”) – [Boolean] Check-out type status^display name

SEARCH                    [Optional,String] Partial match restriction. Default: All entries

START                       [Optional,String] The entry from which to begin the list. Default: “”

NUMBER                  [Optional,Numeric] Number of entries to return. Default: All entries

DFN                        [Required,Numeric] Patient IEN

DGDT [Optional,DateTime] if not set returns the list of today’s available check-out types for specified patient, otherwise on specified date

MFN [Optional,Numeric] Check-in IEN. If is set returns the list of possible check-out types for an existing check-out movement

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value …

PATNFND Patient not found.

MVTNFND Movement not found.

## $$LSTFCTY^DGPMAPI7() - List transfer facilities filtered by name

This extrinsic function returns a list of transfer facilities. The list can be filtered by name.

##### Format

$$LSTFCTY^DGPMAPI7(.RETURN,SEARCH,START,NUMBER)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

                                    RETURN(0) – [String] # of entries found^maximum requested^any more?^flags

(consistent with LIST^DIC header node)

                                    RETURN(#,”ID”) – [Numeric] Transfer facility IEN

                                    RETURN(#,”NAME”) – [String] Transfer facility name

                                    RETURN(#,”STATE”) – [String] Transfer facility state

                                    RETURN(#,”TYPE”) – [String] Transfer facility type

SEARCH                    [Optional,String] Partial match restriction. Default: All entries

START                       [Optional,String] The entry from which to begin the list. Default: “”

NUMBER                  [Optional,Numeric] Number of entries to return. Default: All entries

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

None

## $$LSTLRSN^DGPMAPI7() - List reasons for lodging filtered by name

This extrinsic function returns a list of reasons for lodging. The list can be filtered by name.

##### Format

$$LSTLRSN^DGPMAPI7(.RETURN,SEARCH,START,NUMBER)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

                                  RETURN(0) – [String] # of entries found^maximum requested^any more?^flags

(consistent with LIST^DIC header node)

                                  RETURN(#,”ID”) – [Numeric] Reason for lodging IEN

                                  RETURN(#,”NAME”) – [String] Reason for lodging name

SEARCH                    [Optional,String] Partial match restriction. Default: All entries

START                       [Optional,String] The entry from which to begin the list. Default: “”

NUMBER                  [Optional,Numeric] Number of entries to return. Default: All entries

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

None

## $$LSTWARD^DGPMAPI7() - List wards filtered by name

This extrinsic function returns a list of available wards. The list can be filtered by name.

##### Format

$$LSTWARD^DGPMAPI7(.RETURN,SEARCH,START,NUMBER)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

                                    RETURN(0) – [String] # of entries found^maximum requested^any more?^flags

(consistent with LIST^DIC header node)

                                    RETURN(#,”ID”) – [Numeric] Ward IEN

                                    RETURN(#,”NAME”) – [String] Ward name

                                    RETURN(#,”SPEC”) – [String] Specialty code^specialty name

                                    RETURN(#,”SERV”) – [String] Service code^service name

SEARCH                    [Optional,String] Partial match restriction. Default: All entries

START                       [Optional,String] The entry from which to begin the list. Default: “”

NUMBER                  [Optional,Numeric] Number of entries to return. Default: All entries

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

None

## $$LSTWBED^DGPMAPI7() - List beds filtered by name

This extrinsic function returns a list of available beds which can be assigned by a ward. The list can be filtered by name.

##### Format

$$LSTWBED^DGPMAPI7(.RETURN,SEARCH,START,NUMBER,WARD,DFN)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

                                    RETURN(0) – [String] # of entries found^maximum requested^any more?^flags

(consistent with LIST^DIC header node)

                                    RETURN(#,”ID”) – [Numeric] Bed IEN

                                    RETURN(#,”NAME”) – [String] Bed name

                                    RETURN(#,”DESC”) – [String] Bed description

                                    RETURN(#,”OOS”) – [Boolean] out of service flag

SEARCH                    [Optional,String] Partial match restriction. Default: All entries

START                       [Optional,String] The entry from which to begin the list. Default: “”

NUMBER                  [Optional,Numeric] Number of entries to return. Default: All entries

WARD [Required,Numeric] Ward location (one of the active ward locations returned by LSTWARD^DGPMAPI7)

DFN          [Optional,Numeric] if is set will return available beds inclusive the bed occupied by this

patient

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value …

PATNFND Patient not found.

WARDNFND Ward not found.

## $$LSTTPATS^DGPMAPI7() - List patients with admissions filtered by name

This extrinsic function returns a list of patients which have at least one admission. The list can be filtered by name.

##### Format

$$LSTTPATS^DGPMAPI7(.RETURN,SEARCH,START,NUMBER)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

                                    RETURN(0) – [String] # of entries found^maximum requested^any more?^flags

(consistent with LIST^DIC header node)

                                    RETURN(#,”ID”) – [Numeric] Patient IEN

                                    RETURN(#,”NAME”) – [String] Patient name

                                    RETURN(#,”BIRTH”) – [String] Patient birth date

                                    RETURN(#,”SSN”) – [String] Patient SSN

                                    RETURN(#,”TYPE”) – [String] Patient type

                                    RETURN(#,”VETERAN”) – [Boolean] Patient vetran status

SEARCH                    [Optional,String] Partial match restriction. Default: All entries

START                       [Optional,String] The entry from which to begin the list. Default: “”

NUMBER                  [Optional,Numeric] Number of entries to return. Default: All entries

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

None

## $$LSTCOPAT^DGPMAPI9() - List checked-in patients filtered by name

This extrinsic function returns a list of patients which have at least one check-in movement. The list can be filtered by name.

##### Format

$$LSTCOPAT^DGPMAPI9(.RETURN,SEARCH,START,NUMBER)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

                                    RETURN(0) – [String] # of entries found^maximum requested^any more?^flags

(consistent with LIST^DIC header node)

                                    RETURN(#,”ID”) – [Numeric] Patient IEN

                                    RETURN(#,”NAME”) – [String] Patient name

                                    RETURN(#,”BIRTH”) – [String] Patient birth date

                                    RETURN(#,”SSN”) – [String] Patient SSN

                                    RETURN(#,”TYPE”) – [String] Patient type

                                    RETURN(#,”VETERAN”) – [Boolean] Patient vetran status

SEARCH                    [Optional,String] Partial match restriction. Default: All entries

START                       [Optional,String] The entry from which to begin the list. Default: “”

NUMBER                  [Optional,Numeric] Number of entries to return. Default: All entries

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

None

## $$LSTPADMS^DGPMAPI7() - List patient admissions

This extrinsic function returns a list of the patient admissions.

##### Format

$$LSTPADMS^DGPMAPI7(.RETURN,DFN)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

                                    RETURN(0) – [Numeric] # of entries found

                                    RETURN(#,”ID”) – [Numeric] Admission IEN

                                    RETURN(#,”DATE”) – [String] Admission date (internal format^external format)

                                    RETURN(#,”TTYPE”) – [Numeric] Transaction type

                                    RETURN(#,”PATIENT”) – [String] Patient IEN^patient name

                                    RETURN(#,”TYPE”) – [String] Admission type IEN^admission type name

                                    RETURN(#,”FCTY”) – [String] Transfer facility IEN^transfer facility name

                                    RETURN(#,”WARD”) – [String] Ward IEN^ward name

                                    RETURN(#,”ROOMBED”) – [String] Bed IEN^bed name

                                    RETURN(#,”DISCH”) – [String] Discharge IEN^discharge date

                                    RETURN(#,”MASTYPE”) – [String] MAS movement type IEN^name

DFN                   [Required,Numeric] Patient IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value …

PATNFND Patient not found.

## $$LSTPTRAN^DGPMAPI7() - List patient transfers

This extrinsic function returns a list of the patient transfers related to specified admission.

##### Format

$$LSTPTRAN^DGPMAPI7(.RETURN,DFN,AFN)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

                                    RETURN(0) – [String] # of entries found^maximum requested^any more?^flags

(consistent with LIST^DIC header node)

                                    RETURN(#,”ID”) – [Numeric] Transfer IEN

                                    RETURN(#,”DATE”) – [String] Transfer date (internal format^external format)

                                    RETURN(#,”TTYPE”) – [Numeric] Transaction type

                                    RETURN(#,”PATIENT”) – [String] Patient IEN^patient name

                                    RETURN(#,”TYPE”) – [String] Transfer type IEN^ transfer type name

                                    RETURN(#,”FCTY”) – [String] Transfer facility IEN^transfer facility name

                                    RETURN(#,”WARD”) – [String] Ward IEN^ward name

                                    RETURN(#,”ROOMBED”) – [String] Bed IEN^bed name

                                    RETURN(#,”RABSDT”) – [String] Absence return date (internal format^external format)

                                    RETURN(#,”MASTYPE”) – [String] MAS movement type IEN^name

DFN                   [Required,Numeric] Patient IEN

AFN                   [Required,Numeric] Admission IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value …

ADMNFND Admission not found.

PATNFND Patient not found.

## $$LSTPFTS^DGPMAPI7() - List patient treating specialty transfers

This extrinsic function returns a list of the patient treating specialty transfers related to specified admission.

##### Format

$$LSTPFTS^DGPMAPI7(.RETURN,DFN,AFN)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

                                    RETURN(0) – [String] # of entries found^maximum requested^any more?^flags

(consistent with LIST^DIC header node)

                                    RETURN(#,”ID”) – [Numeric] Transfer IEN

                                    RETURN(#,”DATE”) – [String] Transfer date (internal format^external format)

                                    RETURN(#,”TTYPE”) – [Numeric] Transaction type

                                    RETURN(#,”PATIENT”) – [String] Patient IEN^patient name

                                    RETURN(#,”TYPE”) – [String] Transfer type IEN^ transfer type name

                                    RETURN(#,”PRYMPHY”) – [String] Primary physician IEN^primary physician name

                                    RETURN(#,”FTSPEC”) – [String] Facility treating specialty IEN^ name

                                    RETURN(#,”ATNDPHY”) – [String] Attending physician IEN^attending physician name

                                    RETURN(#,”MASTYPE”) – [String] MAS movement type IEN^name

                                    RETURN(#,”DIAG”,#) – [Array] Diagnosis array

DFN                   [Required,Numeric] Patient IEN

AFN                   [Required,Numeric] Admission IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value …

ADMNFND Admission not found.

PATNFND Patient not found.

## $$LSTPLDGI^DGPMAPI7() - List patient check-ins

This extrinsic function returns a list of the patient check-ins.

##### Format

$$LSTPLDGI^DGPMAPI7(.RETURN,DFN)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

                                    RETURN(0) – [Numeric] # of entries found

                                    RETURN(#,”ID”) – [Numeric] Admission IEN

                                    RETURN(#,”DATE”) – [String] Admission date (internal format^external format)

                                    RETURN(#,”TTYPE”) – [Numeric] Transaction type

                                    RETURN(#,”PATIENT”) – [String] Patient IEN^patient name

                                    RETURN(#,”TYPE”) – [String] Admission type IEN^admission type name

                                    RETURN(#,”FCTY”) – [String] Transfer facility IEN^transfer facility name

                                    RETURN(#,”WARD”) – [String] Ward IEN^ward name

                                    RETURN(#,”ROOMBED”) – [String] Bed IEN^bed name

                                    RETURN(#,”DISCH”) – [String] Check-out IEN^chack-out date

                                    RETURN(#,”LDGRSN”) – [String] Reason for lodging IEN^reason for lodging name

                                    RETURN(#,”LDGCOMM”) – [String] Lodging comments

                                    RETURN(#,”MASTYPE”) – [String] MAS movement type IEN^name

DFN                   [Required,Numeric] Patient IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value …

PATNFND Patient not found.

## $$GETLASTM^DGPMAPI8() – Get last patient movement details

This extrinsic function returns detailed data of the last patient movement.

##### Format

$$GETLASTM^DGPMAPI8(.RETURN,DFN,DGDT)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

RETURN(0) – [String] Error code^Text

                                    RETURN(”MFN”) – [Numeric] Last movement IEN

                                    RETURN(”MTYPE”) – [String] Last movement type IEN^movement type name

                                    RETURN(”TYPE”) – [Numeric] Last movement transaction type

                                    RETURN(”DATE”) – [DateTime] Last movement date

                                    RETURN(”MASTYPE”) – [Numeric] Last movement MAS type

                                    RETURN(”WARD”) – [Numeric] Ward IEN

                                    RETURN(”ROOMBED”) – [Numeric] Bed IEN

                                    RETURN(”PRYMPHY”) – [Numeric] Primary physician IEN

                                    RETURN(”FTSPEC”) – [Numeric] Facility treating specialty IEN

                                    RETURN(”ADMIFN”) – [Numeric] Admission IEN

                                    RETURN(”ADMDT”) – [DateTime] Admission date

                                    RETURN(”DISIFN”) – [Numeric] Discharge IEN

                                    RETURN(”ATNDPHY”) – [Numeric] Attending physician IEN

                                    RETURN(”FDEXC”) – [Boolean] Facility directory exclusion

                                    RETURN(”SERILL”) – [String] Seriously ill code^name

DFN                   [Required,Numeric] Patient IEN

DGDT                 [Optional,Numeric] if is set will return last movement related to specified date

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value …

PATNFND Patient not found.

## $$GETADM^DGPMAPI8() – Get patient admission details

This extrinsic function returns detailed data of the admission.

##### Format

$$GETADM^DGPMAPI8(.RETURN,AFN)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

RETURN(0) – [String] Error code^Text

                                   RETURN(”DATE”) – [String] Admission date (internal format^external format)

                                    RETURN(”TTYPE”) – [Numeric] Transaction type code^name

                                    RETURN(”PATIENT”) – [String] Patient IEN^name

                                    RETURN(”TYPE”) – [String] Admission type IEN^ name

                                    RETURN(”WARD”) – [String] Ward IEN^name

                                    RETURN(”ROOMBED”) – [String] Bed IEN^name

                                    RETURN(”SHDIAG”) – [String] Short diagnosis

                                    RETURN(”ADMSCC”) – [String] Admitted for service connected condition code^name

                                    RETURN(”ADMREG”) – [String] Admitting regulation IEN^name

                                    RETURN(”DISCH”) – [Numeric] Discharge IEN

                                    RETURN(”MASTYPE”) – [String] MAS movement type IEN^name

                                    RETURN(”FDEXC”) – [String] Facility directory exclusion code^name

                                    RETURN(”FTSPEC”) – [String] Facility treating specialty IEN^name

                                    RETURN(”PRYMPHY”) – [String] Primary physician IEN^name

                                    RETURN(”ATNDPHY”) – [String] Attending physician IEN^name

                                    RETURN(”ADMSRC”) – [String] Source of admission IEN^name

                                    RETURN(”ELIGIB”) – [String] Admitting eligibility IEN^name

                                    RETURN(”LDGRSN”) – [String] Lodger reason IEN^name

                                    RETURN(”LDGCOMM”) – [String] Lodger comments IEN

                                    RETURN(”LDGDISP”) – [String] Lodger disposition code^name

                                   RETURN(”FCTY”) – [String] Transfer facility IEN^name

                                    RETURN(”DIAG”,#) – [Array] Diagnosis array

AFN                   [Required,Numeric] Admission IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value - AFN

ADMNFND Admission not found.

## $$GETTRA^DGPMAPI8() – Get patient transfer details

This extrinsic function returns detailed data of the transfer.

##### Format

$$GETTRA^DGPMAPI8(.RETURN,TFN)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

RETURN(0) – [String] Error code^Text

                                   RETURN(”DATE”) – [String] Admission date (internal format^external format)

                                    RETURN(”TTYPE”) – [Numeric] Transaction type code^name

                                    RETURN(”PATIENT”) – [String] Patient IEN^name

                                    RETURN(”TYPE”) – [String] Admission type IEN^ name

                                   RETURN(”FCTY”) – [String] Transfer facility IEN^name

                                    RETURN(”WARD”) – [String] Ward IEN^name

                                    RETURN(”ROOMBED”) – [String] Bed IEN^name

                                    RETURN(”RABSDT”) – [Numeric] Return absence date

                                    RETURN(”ADMIFN”) – [String] Admission IEN^name

                                    RETURN(”MASTYPE”) – [String] MAS movement type IEN^name

                                    RETURN(”FTSPEC”) – [String] Facility treating specialty IEN^name

                                    RETURN(”PRYMPHY”) – [String] Primary physician IEN^name

                                    RETURN(”ATNDPHY”) – [String] Attending physician IEN^name

                                    RETURN(”DIAG”,#) – [Array] Diagnosis array

TFN                   [Required,Numeric] Transfer IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value - TFN

TRANFND Transfer not found.

## $$GETMVT^DGPMAPI8() – Get patient movement details

This extrinsic function returns detailed data of the movement.

##### Format

$$GETMVT^DGPMAPI8(.RETURN,MFN)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

RETURN(0) – [String] Error code^Text

                                  RETURN(”DATE”) – [String] Admission date (internal format^external format)

                                  RETURN(”TTYPE”) – [Numeric] Transaction type code^name

                                  RETURN(”PATIENT”) – [String] Patient IEN^name

                                  RETURN(”TYPE”) – [String] Admission type IEN^name

                                  RETURN(”FCTY”) – [String] Transfer facility IEN^name

                                  RETURN(”WARD”) – [String] Ward IEN^name

                                  RETURN(”ROOMBED”) – [String] Bed IEN^name

                                  RETURN(”PRYMPHY”) – [String] Primary physician IEN^name

                                  RETURN(”FTSPEC”) – [String] Facility treating specialty IEN^name

                                  RETURN(”SHDIAG”) – [String] Short diagnosis

                                  RETURN(”ADMIFN”) – [String] Admission IEN^name

                                  RETURN(”DISCH”) – [Numeric] Discharge IEN

                                  RETURN(”MASTYPE”) – [String] MAS movement type IEN^name

                                  RETURN(”ATNDPHY”) – [String] Attending physician IEN^name

                                  RETURN(”LDGRSN”) – [String] Lodger reason IEN^name

                                  RETURN(”LDGCOMM”) – [String] Lodger comments IEN

                                  RETURN(”LDGDISP”) – [String] Lodger disposition code^name

MFN                [Required,Numeric] Movement IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value - MFN

MVTNFND Movement not found.

## $$GETMVTT^DGPMAPI8() – Get movement type details

This extrinsic function returns detailed data of the movement type.

##### Format

$$GETMVTT^DGPMAPI8(.RETURN,IFN)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

RETURN(0) – [String] Error code^Text

                                  RETURN(”NAME”) – [String] Movement type name

                                  RETURN(”TTYPE”) – [Numeric] Transaction type

                                  RETURN(”MAS”) – [Numeric] MAS movement type

                                  RETURN(”STAT”) – [Boolean] Movement type status

                                  RETURN(”ASKSPEC”) – [Boolean] Ask specialty at movement

IFN                   [Required,Numeric] Movement type IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value - IFN

MVTTNFND Movement type not found.

## $$GETMASMT^DGPMAPI8() – Get MAS movement type details

This extrinsic function returns detailed data of the MAS movement type.

##### Format

$$GETMASMT^DGPMAPI8(.RETURN,IFN)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

RETURN(0) – [String] Error code^Text

                                  RETURN(”NAME”) – [String] Movement type name

                                  RETURN(”TTYPE”) – [Numeric] Transaction type

                                  RETURN(”ASKSPEC”) – [Boolean] Ask specialty at movement?

                                  RETURN(”ASKFTY”) – [Boolean] Ask facility at movement?

                                  RETURN(”ABS”) – [Boolean] Is this movement an absence?

                                  RETURN(”CFADM”) – [Boolean] Can movement follow admission?

                                  RETURN(”ASIH”) – [Boolean] ASIH movement?

IFN                   [Required,Numeric] Movement type IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value - IFN

MVTTNFND Movement type not found.

## $$GETAREG^DGPMAPI8() – Get admitting regulation details

This extrinsic function returns detailed data of the admitting regulation.

##### Format

$$GETAREG^DGPMAPI8(.RETURN,IFN)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

RETURN(0) – [String] Error code^Text

                                  RETURN(”IEN”) – [Numeric] Admitting regulation IEN

                                  RETURN(”NAME”) – [String] Admitting regulation name

                                  RETURN(”STATUS”) – [String] Admitting regulation status (internal^external format)

IFN                   [Required,Numeric] Admitting regulation IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value - IFN

AREGNFND Admitting regulation not found.

## $$GETWARD^DGPMAPI8() – Get ward details

This extrinsic function returns detailed data of the ward.

##### Format

$$GETWARD^DGPMAPI8(.RETURN,IFN)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

RETURN(0) – [String] Error code^Text

                                  RETURN(”NAME”) – [String] Ward name

                                  RETURN(”BED”) – [String] Bedsection of this ward

                                  RETURN(”SERVICE”) – [String] Ward service code (M:MEDICINE, S:SURGERY,

P:PSYCHIATRY, NH:NHCU, NE:NEUROLOGY, I:INTERMEDIATE MED, R:REHAB MEDICINE, SCI:SPINAL CORD INJURY, D:DOMICILIARY, B:BLIND REHAB, NC:NON-COUNT)

                                  RETURN(”SRILL”) – [Boolean] Include on seriously ill list?

                                  RETURN(”SPCTY”) – [Numeric] Specialty IEN

IFN                   [Required,Numeric] Ward IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value - IFN

WRDNFND Ward not found.

## $$GETPAT^DGPMAPI8() – Get patient details

This extrinsic function returns detailed data of the patient.

##### Format

$$GETPAT^DGPMAPI8(.RETURN,DFN)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

RETURN(0) – [String] Error code^Text

                                  RETURN(”NAME”) – [String] Patient name

RETURN("SEX") - [String] Patient sex code (M:MALE, F:FEMALE)

  RETURN("DOB") - [DateTime] Date of birth

  RETURN("MSTAT") - [Numeric] Marital status IEN (pointer to file 11)

RETURN("RELPREF") - [Numeric] religious preference IEN (pointer to file #13)

  RETURN("MEANST") - [Numeric] Current means test status IEN (pointer to file 408.32)

  RETURN("DTHDT") - [DateTime] Date of death

  RETURN("ELIG") - [Numeric] Primary eligibility code IEN (pointer to file 8)

  RETURN("ESTAT") - [String] Eligibility status code (P:PENDING VERIFICATION, R:PENDING

RE-VERIFICATION, V:VERIFIED)

  RETURN("POFSRV") - [Numeric] Period of service IEN (pointer to file 21)

  RETURN("SRILL") - [String] Condition code (S:SERIOUSLY ILL)

  RETURN("WARD") - [String] Ward location name

DFN                   [Required,Numeric] Patient IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value - DFN

PATNFND Patient not found.

## $$GETPSRV^DGPMAPI8() – Get period of service details

This extrinsic function returns detailed data of the period of service.

##### Format

$$GETPSRV^DGPMAPI8(.RETURN,IFN)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

RETURN(0) – [String] Error code^Text

                                  RETURN(”NAME”) – [String] Period of service name

RETURN("NAME") - [String] Period of service name

RETURN("ABV") - [String] Period of service abbreviation

RETURN("CODE") - [String] Period of service code

RETURN("BEGDT") - [DateTime] Period of service begining date

RETURN("ENDDT") - [DateTime] Period of service ending date

IFN                   [Required,Numeric] Period of service IEN

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value - IFN

PSRVNFND Period of service not found.

## $$LSTPELIG^DGPMAPI9() - List patient eligibility codes

This extrinsic function returns a list of eligibility codes assigned for patient.

##### Format

$$LSTPELIG^DGPMAPI9(.RETURN, DFN)

##### Input Parameters

.RETURN                  [Required,Array] Array passed by reference that will receive the data

RETURN(0) – [Numeric] # of entries found

                                    RETURN(“PELIG”) – [String] Primary\_eligibility\_IEN^eligibility\_name (pointer to file 8)

                                    RETURN(#) – [String] Eligibility\_IEN^eligibility\_name (pointer to file 8)

DFN                        [Required,Numeric] Patient IEN (pointer to file 2)

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

INVPARM Invalid parameter value …

PATNFND Patient not found.

## $$LSTACAT^DGSAAPI() - List admitting categories

This extrinsic function returns a list of admitting categories.

##### Format

$$LSTACAT^DGSAAPI (.RETURN,AREG,ACTIVE)

##### Input Parameters

.RETURN             [Required,Array] Array passed by reference that will receive the data

RETURN(0) – [Numeric] # of entries found

RETURN(#,ID) – [Numeric] Sharing agreement category IEN (pointer to the Sharing Agreement Category file #35.1)

RETURN(#,SUBCAT) [String] Sub-category IEN^Sub-category name (pointer to the Sharing Agreement Sub-Category file #35.2)

RETURN(#,STATUS) – [Boolean] Sharing agreement category status

ACTIVE [Optional,Boolean] If is set to 1 returns only active sub-categories, otherwise all.

AREG [Required,Numeric] Admitting regulation IEN (pointer to the VA Admitting Regulation file #43.4)

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

AREGNFND Admitting regulation not found.

AREGINAC Admitting regulation is inactive.

INVPARM Invalid parameter value

## $$ADDACAT^DGSAAPI() – Add new Sharing Agreement Category

This extrinsic function creates a new Sharing Agreement Category entry.

##### Format

$$ADDACAT^DGSAAPI(.RETURN,AREG,SUBCAT,STATUS)

##### Input Parameters

.RETURN [Required,Numeric] Set to the new Sharing Agreement Category IEN, 0 otherwise.

Set to Error description if the call fails

AREG [Required,Numeric] Admitting regulation IEN (pointer to the Admitting Regulation file #43.4)

SUBCAT [Required,Numeric] Sub-Category IEN (pointer to the Sharing Agreement Sub-Category file #35.2)

STATUS [Optional,Boolean] Sharing Agreement Category active code. One of: 1^YES, 0^NO. Defaults to 0^NO.

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

AREGNFND Admitting regulation not found.

SACEXST Sharing Agreement Category already exists.

AREGINAC Admitting regulation is inactive.

SASCNFND Sharing Agreement Sub-Category not found.

INVPARM Invalid parameter value

## $$UPDCAT^DGSAAPI() – Update Sharing Agreement Category

This extrinsic function updates an existing Sharing Agreement Category.

##### Format

$$UPDCAT^DGSAAPI(.RETURN,SACAT,STATUS)

##### Input Parameters

.RETURN [Required,Numeric] Set to the new sharing agreement category IEN, 0 otherwise.

Set to Error description if the call fails

SACAT [Required,Numeric] Sharing Agreement Category IFN (one of the active Sharing Agreement Category returned by LSTACAT^DGSAAPI)

STATUS [Optional,Boolean] Sharing Agreement Category active code. One of: 1^YES, 0^NO.

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

SACNFND Sharing Agreement Category not found.

INVPARM Invalid parameter value

## $$ADDSASC^DGSAAPI() – Add new Sharing Agreement Sub-Category

This extrinsic function creates a new Sharing Agreement Sub-Category entry.

##### Format

$$ADDSASC^DGSAAPI(.RETURN,NAME)

##### Input Parameters

.RETURN [Required,Numeric] Set to the new Sharing Agreement Sub-Category IEN, 0 otherwise.

Set to Error description if the call fails

NAME [Required,String] Sharing Agreement Sub-Category name

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

SASCINV Invalid Sharing Agreement Sub-Category name, must be 3-30 characters long.

SASCAEX Sharing Agreement Sub-Category ... already exists.

## $$UPDSASC^DGSAAPI() – Update Sharing Agreement Sub-Category

This extrinsic function updates an existing Sharing Agreement Sub-Category.

##### Format

$$UPDSASC^DGSAAPI(.RETURN,IFN,NAME)

##### Input Parameters

.RETURN [Required,Numeric] Set to the new Sharing Agreement Sub-Category IEN, 0 otherwise.

Set to Error description if the call fails

IFN [Required,Numeric] Sharing Agreement Sub-Category IEN (pointer to the Sharing Agreement Sub-Category file #35.2)

NAME [Required,String] Sharing Agreement Sub-Category name

##### Output

A Boolean value signaling if the call was successful or not.

##### Error Codes Returned

SASCINV Invalid Sharing Agreement Sub-Category name, must be 3-30 characters long.

SASCAEX Sharing Agreement Sub-Category ... already exists.

SASCNFND Sharing Agreement Sub-Category not found.

INVPARM Invalid parameter value

# GLOSSARY

IEN Internal Entry Number. The number used to identify an entry within a file. Every record has a unique internal entry number. Often abbreviated as IEN.

STOP CODE A three-digit number corresponding to an additional stop/service a patient received in conjunction with a clinic visit.

Stop code entries are used so that medical facilities may receive credit for the services rendered during a patient visit.

# How to use the code

## API

The APIs presented in this paper cover most of the functionality found in the Appointment Management menu option. They follow a consistent calling convention that allows for returning rich error messages from the called routines, making them suitable as an interface to be used by external applications.

## Assumed Variables

The only assumed variables used in this API are Kernel variables documented in section 2.3.1.3.2 of the SAC. In this version the following assumed variables were used: DUZ,DT,U

## Format and conventions of the calls

The conventions used in this API are very similar to those enforced by the RPC Broker. Every tag has at least one parameter, passed by reference that will hold the result of the call. Every function returns a Boolean to signal if the processing was successful or not.

If the return value is 0, the first parameter (RETURN) will be structured as an array containing the errors encountered, numbered from 0 to the error count. The errors have the following form:

ErrorId^Message

Example

INVPARM^Invalid parameter value – SDWLDFN

# Installation

Along with this paper a KID Host File is provided. The steps required to install the distribution are outlined below:

1. From the *Systems Manager Menu* select *Programmer Options…*
2. Select *Kernel Installation & Distribution System*
3. Select *Installation*
4. Select *Load a Distribution*
5. Enter the host file path, for example C:\ DG\_5.3\_260005.KID and load the distribution.
6. Use the *Install Package(s)* option and select DG\*5.3\*260005
7. When prompted *Want KIDS to Rebuild Menu Trees Upon Completion of Install?* Respond NO
8. When prompted *Want KIDS to INHIBIT LOGONs during the install?* Respond NO
9. When prompted *Want to DISABLE Scheduled Options, Menu Options, and Protocols?* Respond NO

# Conclusions

This paper presented a set of APIs developed as part of the Open Source HER refactoring effort. They are meant to be used by both scroll & roll interface and RPC tags and to be accessible by other packages and applications. Also they should remove direct global access, uncouple the business logic from the user interface elements and minimize code duplication.