Medsphere OpenVista

Meaningful Use Updates

November 2017





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Release 2017.2.0 Meaningful Use and eCQM Enhancements

Expand types of refusals that can be stored

An **Other** option added to the **Refusal Type** menu allows for refusal documentation based on any code found in a CQM value set, e.g., SNOMED, CPT, RXNORM, CVX, LOINC, ICD. Some eCQMs (electronic clinical quality measures) require documentation of things that were *not* done for a patient. The **Other** refusal type enables greater flexibility to record, as structured data rather than just text, the details of patient care that was not provided due to patient preference or medical reasons.

On the **Wellness** tab in the **Personal Health** section, select **Add a Refusal** to display the **Enter Service Not Provided/Refusal** with **Other** as an option.

User Patient RefreshData Tools Help Add/EditeSig Clear Clear and Lock	Dosing Calculator Graphing Inbox		
PRIVACY NOTIFICATIONS PATIENT CHART RESOURCES ED DAS	HBOARD SURGERY TRACKER SURI	SERY SCHEDULING BRX RENEWALS	
OHDE,REPORTFIVE A 1000000404 01-Aug-1987 (30) F	ICU 109-1	17-Jul-2017 14:20 Inpatient 2000000612	signed
No Photo Available	CIC DIA Med Reconciliation Clinical Recon	CWAD Image: Comparison of the comparison of	Problem List Advs React Medications R R R
COVERSHEET PROBLEM LIST VITALS ORDERS MEDS LABS	WELLNESS IMMUNIZATIONS NOT	ES CONSULTS MDTP FLOWSHEETS DC SUMMARY	SUPERBILL REPORTS
Education Show Standard	Add Edit Delete	Health Factors	Add Edit Delete
Visit Date Event Date Education Topic Com	prehension Status Objectives Comm	Visit Date Health Factor Category Comment	
		07/10/2017 Esi = 3 Emergency 07/10/2017 Acute Stroke Symptoms No. Stroke Care	
Sector Service Not Provided / Refusal		Exams	Add Edit Delete
Persona Immunization	Add Delete	Visit Date Exams	Result Comments Provider Locati
Lab Marmogram Medication/Drug PAP Smear Other therapy	Cancel		
Eeason (None selected)	·		
Date Refused 10/12/2017			
Comment		4	
OHDE,RC			Medsphere

Figure 1: The Enter Service Not Provided dialog on the Wellness tab

Type a search term or known code in the **Other** field and press **Enter** to display a **Search Refusal** dialog with a narrowed list that includes a Description, Code, and Code system determined by the original search term. Alternatively, click on the ellipsis (...) button on the **Enter Service Not Provided/Refusal** dialog to access the **Search Refusals** dialog.



earch R	efusals			
			OK Car	ncel
5earch	therapy		Sea	arch
	Hint: Enter Search Terms. Examples: fracture ankle, fract* hum*			
00 of 67	71 results displayed. Refine your search if you don't see what you are looking for			
escripti	ion	Code	Code System	
4oveme	nt therapy (regime/therapy)	229064008	SNOMEDCT	٦
xercise	therapy (regime/therapy)	229065009	SNOMEDCT	
1anual t	therapy (regime/therapy)	229315006	SNOMEDCT	
\mbulati	ion therapy (regime/therapy)	370871008	SNOMEDCT	
lutrition	therapy (regime/therapy)	386373004	SNOMEDCT	
honolog	gical therapy (regime/therapy)	448275004	SNOMEDCT	
peech t	therapy (regime/therapy)	5154007	SNOMEDCT	
Rehabilit	tation therapy (regime/therapy)	52052004	SNOMEDCT	
etoxific	cation therapy (regime/therapy)	67516001	SNOMEDCT	
Occupati	ional therapy (regime/therapy)	84478008	SNOMEDCT	
nfrared	radiation therapy (regime/therapy)	169421008	SNOMEDCT	
nflamm	atory infrared therapy (regime/therapy)	169422001	SNOMEDCT	
Combine	ed physical therapy (regime/therapy)	183326003	SNOMEDCT	
)rug ado	diction therapy (regime/therapy)	266707007	SNOMEDCT	
oice the	erapy regime (regime/therapy)	311556008	SNOMEDCT	
1elodic i	intonation therapy (regime/therapy)	311597001	SNOMEDCT	
peech p	promotion therapy (regime/therapy)	311641005	SNOMEDCT	
Therapy	to promote phoneme (regime/therapy)	311646000	SNOMEDCT	
Therapy	to promote consonants (regime/therapy)	311647009	SNOMEDCT	

Figure 2: Searching for a term

PRIVACY NOTIFICATIONS PATIENT CH	ART RESOURCES ED DASHBOARD SURGERY TRACKER SURGERY SCHEDULING	eRx RENEWALS
OHDE, REPORTFIVE A 1000000404 01-Aug-1987 (30) F	ICU 109-1 Search Refusals	17-Jul-2017 14:20 Primary Care Team Unassigned
No Photo Available	Search 265707007	OK Cancel Problem List Advs React M
COVERSHEET PROBLEM LIST VITALS Education 1 Show Standard	Hint: Enter Search Terms. Examples: fracture ankle, fract* hum* 1 results found	Add
Visit Date Event Date Education Topic	Description	Code Code System
Person Person Person		Add Result Comments _Prov
Administration and Medication/Dimensional Medication/Dimensio		
Comment		
OHDE,RC		

Figure 3: Searching for a code

After selecting the appropriate item, enter the **Reason** for the refusal and **Date Refused** in those fields, and add the item to the **Personal Health Refusals** list.



🚔 Enter Service Not Provided / Refusal	×
Refusal Iype □ Exam □ Radiology Exam □ Immunization □ Skin Test □ Lab ✓ Other □ Mammogram □ Medication/Drug □ PAP Smear □	Add Cancel
Other Speech therapy (regime/therapy)	
Reason Refusal of treatment by patient	
Date Refused 10/12/2017	
Comme <u>n</u> t	

Figure 4: Reason for refusal and Date Refused

OpenVista CareVue - QA710 - qalinuxgtm02.medsphere.com - OHD	DE,ROCHELLE		
User Patient Refresh Data Tools Help Add/Edit eSig Clear Clear and Loc	k Dosing Calculator Graphing Inbox		
PRIVACY NOTIFICATIONS PATIENT CHART RESOURCES ED DAS	SHBOARD SURGERY TRACKER SURGERY SCHE	ULING eRx RENEWALS	
OHDE,REPORTFIVE A 1000000404 01-Aug-1987 (30) F	ICU 109-1	17Jul-2017 14:20 Inpatient 2000000612	
No Photo Available Visit Summary	CIC DIA Med Reconciliation Clinical Recon	A POC Lab Entry	Problem List Advs React Medications R R R
COVERSHEET PROBLEM LIST VITALS ORDERS MEDS LABS	WELLNESS IMMUNIZATIONS NOTES CON	ULTS MDTP FLOWSHEETS DC SUMMARY SUPERBIL	L REPORTS
Education 1 Show Standard	Add Edit Delete Health	Factors	Add Edit Delete
Visit Date Event Date Education Topic Com	nprehension Status Objectives Comm Visit Date	Health Factor Category Comment	
	07/10/20	7 Esi = 3 Emergency 7 Asute Strake Sumeters No. Strake Care	
	07710/20	Active Stroke Symptoms No Stroke Care	
Personal Health	Exams		Add Edit Delete
Personal Health Refusal	Add Edit Delete	5	
Defend 10/12/2017 Create Manage (aring Manage) (Other)		Exams	Hesuit Comments Provider Locati
Terusal Torrezzonz, speech derapy (reginer derapy) (onei)			

Figure 5: Reason added to Personal Health Refusals list

Required action: Test in your normal workflow for the Personal Health/Refusals component.

Suggested additional testing: Add a new **Other** refusal type, then perform searches and add **Refusals** based on codes found in CQM value sets.

Related artifact: 20974

Medication List in CCD includes meds for date range

Users can now create a **CCD** or **Discharge Note** type of CCDA that includes all medications. The **CCD** and **DISCHARGE SUMMARY** documents include medications with any status ordered within the visit date range, unless they are marked as entered in error.

This change enables a more accurate CCDA created for a past visit. Previously, a CCDA created for a previous visit would show only medications that were still active when the CCDA was created.

Related artifact: 21286



News way to calculate SHA-2 Hash of documents in Clinical Messaging

The CareVue Clinical Messaging feature now allows the user to generate and copy a **message digest** or **hash** value for files attached to a sent or received message. Recipients and senders of a document can now ensure that it has not been damaged or tampered with in transit. This feature does not affect the message encryption or security; it simply ensures that the message was correctly transmitted.

When this feature is enabled, a **SHA-256** link displays next to each attachment in either an inbox or sent messages folder. Click this link to display a dialog with the hash for the corresponding file. You can select and copy the hash like any other selectable text.

Since most users do not need this capability, availability is controlled via a new parameter. The new link displays only when the **MSCCM ATTACHMENT HASH ON/OFF** parameter is set to **1/YES**. Set this parameter in PuTTY using **TEST AN OPTION** and selecting **XPAR EDIT PARAMETER**.

WS-QAWIN703 - Remote Desktop Connection	non preparation press (and			• ×
Medsphere Clinical Messaging × +				
O qalinuxgtm02.medsphere.com:18280/QA710-ClinicalMessaging/#/messages/Inbox	C Q Search	☆ 自 ♣		, ≡
Messaging Inbox Sent			L	Log Out
I≣ Back ← Reply ← Forward				
test RN via DM from CV with MS visit selected general hospital-qa710gtm02@newcrop.cert direct-ci.com Patient: SocB8 JoNAS (F -) - MRN: 100000395 Sent: 7102017, 24535 9 To: physician.jonas-qa710gtm02@newcrop.cert.direct-ci.com				
testse				
*** Clinical Messaging *** QA710/qalinuxgtm02 medsphere.com ***				
Attachments: ReferralNoteCCDA xml 📩 📝 SHA-266				
© 2014-2017 MSC About				
🥹 🛤 🤌 🖲 Medsphere Clinical 💿 🐨 OpenVista CareVue	Sho	ortcuts "Launch " 🔺	•	4:13 PM

Figure 6: New Clinical Messaging link

Click the link to view the message digest or hash in a pop-up window. Copy and paste the text as needed for use in other documents or messages, and for comparison with a hash generated by the file recipient.

Referra	alNoteCCDA.xml
SHA-256:	3b3e61b708e970740e08549e0a3c1f8ba37b0286fc295d55b4b34613b2bf7243
	Close

Figure 7: Display of a message digest or hash for a CCDA document attached to a message

Related artifact: 21008



Objective Reports and Quality Reporting

A new menu structure now runs **Meaningful Use Objective** reports and **Performance Measure Reporting**, a.k.a., **eCQM** reporting and submission. The top-level menu option for all Objective Reports and eCQM measures is now **MSCRU MAIN MENU**. Updated versions of all Meaningful Use Objective reports for both hospital and eligible provider reporting are available in the new top-level menu option. Users can run objective reports for Stage 2, Modified Stage 2 or Stage 3 reporting. Additionally, find updated versions of eCQM reporting for 2017 Quality Measure submissions in this new menu. Details for both Objective reporting and eCQM reporting will be available in separate System Design Blocks. An abbreviated sample of the menus is shown below:

```
Option entry to test: MSCRU MAIN MENU
                                       Meaningful Use Performance Measure Reporting
                                   لد بند بند بند بند بند بند
                     ** MSC REPORTING SYSTEM **
                     ****
                               Version 1.0
                             GENERAL HOSPITAL
       Meaningful Use (MU) Objective Reports ...
  OBJ
  CQM
       Meaningful Use Performance Measure Reporting ...
Select Meaningful Use Performance Measure Reporting MUNEXT Option: OBJ
Meaningful Use (MU) Objective Reports
  EН
        MU Eligible Hospital/CAH ...
  ΕP
       MU Eligible Provider/Clinician ...
Select Meaningful Use (MU) Objective Reports MUNEXT Option: EH
 MU Eligible Hospital/CAH
         2014 Reporting Year - EH/CAH Stage 2 ...
  1
        2015 Reporting Year - EH/CAH Modified Stage 2 ...
  2
  3
       2016 Reporting Year - EH/CAH Modified Stage 2 ...
         2017 Reporting Year - EH/CAH Modified Stage 2 ...
2017 Reporting Year - EH/CAH Stage 3 ...
  4
  5
Select MU Eligible Hospital/CAH MUNEXT Option:
COM REPORTING:
Option entry to test: MSCRU MAIN MENU
                                       Meaningful Use Performance Measure Reporting
                     *****
                     ** MSC REPORTING SYSTEM **
                     *****
                               Version 1.0
                             GENERAL HOSPITAL
         Meaningful Use (MU) Objective Reports ...
  OBJ
  CQM
         Meaningful Use Performance Measure Reporting ...
Select Meaningful Use Performance Measure Reporting MUNEXT Option: COM Meaningful Use
Performance Measure Reporting
                     ********************************
                     ** MSC REPORTING SYSTEM **
                     Version 1.0
                              GENERAL HOSPITAL
  14H
       Hospital eCQMs - Reporting Year 2014, 2015
  16H
        Hospital eCQMs - Reporting Year 2016
```



17H Hospital eCQMs - QRDA Prep - RY 2017 14EP EP eCQMs - Reporting Year 2014, 2015 17EP EP eCQMs - QRDA Prep - RY 2017 QRDA QRDA Submission Maintenance PLST Add/Edit MSCRU QRDA PATIENT SUBSETS entries Select Meaningful Use Performance Measure Reporting MUNEXT Option: Required action:

Related artifacts: 21090 and 21092



Release 2017.2.0 Meaningful Use Fixes

Updated MU eRx Objective report

The summary report denominator in the **MU eRx Objective** report now includes the start date, time of admission, and discharge date and time when patient prescriptions are included in the report.

Required action: Test the **MU eRx Objective** report by selecting patients that have eRx prescriptions in which the **Visit Start Date/Time** is less than or equal to the **Rx Date/Time** and less than or equal to the **Visit End Date/Time**.

Related artifact: 20187

Health Information Exchange and Data Export via CCDA

Certified electronic health record technology that meets the requirements for Stage 3 Meaningful Use must enable authorized users to export selected patient records, or all patient records, as **Continuity of Care Documents (CCD)**—a type of CCDA file designed to transfer medical records between different EHR systems.

To satisfy this requirement, the **HDS Service** can now run a background task to poll for exports that need to be performed. The export process is controlled by editing two files using FileMan. This process is like using the **CCDA Importer** and **MU Report Extractor**, which import patient documents into the Patient Portal database.

In addition to CCD export, OpenVista can now export CCDA documents in several formats suitable for submitting National Health Care Surveys. Several types of export are available for reporting outpatient, emergency department, and inpatient records.

Caution: Exporting CCD and Health Care Survey documents can be resource intensive, especially when large numbers of patient records are involved. Use caution in configuring exports and do not schedule exports unless needed. As delivered, only users with the highest level FileMan access of @ can edit the **CCDA DATA EXPORT CONTROL FILE**.

The data export measure requires that a user configure an export to happen immediately or at some time in the future. The data exported are in the form of either **Continuity of Care (CCD)** or National Health **Care Survey (NHCS)** XML documents (CCDA). An export event can cover a date/time range of visits or specific visits.

Once an export is complete, it can be scheduled to recur in the future. Accomplish this using two (2) FileMan files that allow a user to configure an export job. A thread within the **HDS Service** polls every 30 seconds and kicks off the export process when the export time has arrived.

Configuration Synopsis

- In FileMan, add a record to the CCDA DATA EXPORTER ENV CONFIG file. This likely only needs to be done once.
- In CareVue, subscribe to Free Text notifications.
- In FileMan, add a record to the CCDA DATA EXPORT CONTROL file via the USER group.
- (Optional) From OpenVista, use **D REPORT^MSCHDSXP("S")** to monitor running exports.
- Wait for the notification in CareVue when the export is complete.



• Find the export files in their own directory, noted in the notification message.

Configuration Details

Field Name	Description
EXPORT DATETIME	This is the date/time that the export should occur. This field can be any valid FileMan date/time specification. As such, it can also take meta date/time specifications, such as T+1W@1100 (a week from now at 11 a.m.). Here are some examples of valid values:
	NOW (The current date time.)
	NOW+1 (Tomorrow at this time.)
	T+1 (Tomorrow at midnight.)
	T+1W@1300 (In one week at 1:00 p.m.)
	JULY 1, 2017@15:00
	3170701.15 (July 1, 2017 @ 15:00 in FM format).
RECURS	If the job is to recur, then configure appropriately. Valid values are:
	D – Daily
	VV – VVeckly
	V Voorly
	$\Gamma = \Gamma \epsilon a \pi y$
OUTPUT DIRECTORY	This is an optional field but should only be left blank if the user wants to default to the value of the DEFAULT OUTPUT DIRECTORY field of the CCDA DATA EXPORTER ENV CONFIG file. A value here overrides the setting in the ENV CONFIG file.
DOCUMENT TYPE	The document type to produce. There are currently four choices:
	C – CCD
	NI – NHCS INPATIENT (for National Healthcare Surveys)
	NO – NHCS OUTPATIENT (for National Healthcare Surveys)
	NE – NHCS ED PATIENT (for National Healthcare Surveys)
	Note: When choosing the NHCS ED PATIENT document type, be aware that an ED patient is one where the value of the HOSPITAL LOCATION (.22) field of the VISIT (9000010) file matches one of the values established in the MSCR ER LOCATION NAMES parameter.
PATIENT TYPE	The data export measure requires differentiation between Test patients and Non-test (e.g., real) patients. The valid values for this field are:
	N – Non-Test
	T – Test
	B – Both
	A patient is considered a test patient if either the TEST PATIENT INDICATOR field in the PATIENT (2) file is set to YES or if the patient's SSN starts with five (5) zeroes (0).
VISIT RANGE BEGIN DATETIME	This is the date/time of the earliest visit to include in the export. This field is optional. However, if omitted, the user should choose specific visits. The input formats that are allowed are the same as those described in the EXPORT DATETIME field.
VISIT RANGE END DATETIME	This is the date/time of the latest visit to include. The input formats that are



	allowed are the same as those described in the EXPORT DATETIME field.
VISITS	This is a multiple that points to the visit file. A user can choose specific patients using this field. To begin, enter the name or MRN of the patient and then choose the proper visit(s) (if there is more than one).

Two files must be configured for data export. The first, **CCDA DATA EXPORTER ENV CONFIG**, contains a single record and specifies authentication and environment information applicable to all exports. The second file, **CCDA DATA EXPORT CONTROL**, enables configuration of all necessary components for a single data export job.

	Configuring	the	CCDA	DATA	EXPORTER	ENV	CONFIG	file:
--	-------------	-----	------	------	-----------------	-----	--------	-------

Field Name	Description
NUMBER	Only one record is allowed in this file, so NUMBER *must* be set to 1. Nothing else is allowed.
EXPORTER ACCESS CODE	The Access Code for a user who has the CIAV VUECENTRIC secondary option assigned (field 203 of the NEW PERSON file).
EXPORTER VERIFY CODE	The accompanying Verify Code for the Access Code. Choose a user with VERIFY CODE NEVER EXPIRES set to Yes.
DEFAULT OUTPUT DIRECTORY	This is an optional field. If supplied, it represents a default directory for an export for which an output directory was omitted when the user configures an individual export. This frees users from having to remember/configure an output directory each time they configure a data export job. This directory should be accessible and writable on the GlassFish server. For testing, /tmp is a valid choice for a Linux system. For production, something else would be more appropriate since /tmp gets cleaned upon reboot.

The **CCDA DATA EXPORT CONTROL** file contains records for CCDA data export jobs, both past and future. Many fields in this file require no configuration. To simplify data entry, a new **USER** field group presents only those few fields needed to configure a data export job. Examples of how to use this group are presented below. The **USER** group fields are also described below.

CCDA DATA EXPORT CONTROL (USER group fields)

Note: Users can configure both a visit date range and specific visits for an export.

This is an example of adding a new entry to the **CCDA DATA EXPORT CONTROL** file using the **USER** group fields and choosing both a visit date range and one specific visit. User input is in **bold and red**.

```
Select OPTION: 1 ENTER OR EDIT FILE ENTRIES
Input to what File: CCDA DATA EXPORT CONTROL// CCDA DATA EXPORT CONTROL
                                         (5 entries)
EDIT WHICH FIELD: ALL// USER
Fields in Group: USER
  .01 EXPORT DATETIME
1 RECURS
        OUTPUT DIRECTORY
 2
 3 PATIENT TYPE
3.5 DOCUMENT TYPE
        VISIT RANGE BEGIN DATETIME
  4
  5
         VISIT RANGE END DATETIME
  6
         VISITS
Edit this GROUP of fields? YES//
THEN EDIT FIELD:
```



STORE THESE FIELDS IN TEMPLATE:

```
Select CCDA DATA EXPORT CONTROL EXPORT DATETIME: NOW
                                                                 FEB 13,2017@15:41:56
  Are you adding 'FEB 13,2017015:41:56' as
   a new CCDA DATA EXPORT CONTROL (the 6TH)? No// yes (Yes)
RECURS: ?
     Choose from:
              NEVER
       N
        D
                  DAILY
       W
                  WEEKLY
        Μ
                  MONTHLY
        Y
                 YEARLY
RECURS: n NEVER
OUTPUT DIRECTORY:
PATIENT TYPE: N NON-TEST
DOCUMENT TYPE: ?
     Choose from:
       C
                  CCD
       NI
                 NHCS INPATIENT
              NHCS OUTPATIENT
       NO
        NE
                  NHCS ED PATIENT
DOCUMENT TYPE: NE NHCS ED PATIENTVISIT RANGE BEGIN DATETIME: T-500 (OCT 02, 2015)
VISIT RANGE END DATETIME: T (FEB 13, 2017)
Select VISIT: patient,

        1
        PATIENT, CLINICAL F
        4-27-55
        4-27-55
        Female

        2
        PATIENT, CLINICAL M
        11-18-45
        11-18-45
        Male

        3
        PATIENT, DIETARY
        12-1-68
        12-1-68
        Female

        4
        PATIENT, KARUNA
        8-20-12
        8-20-12
        Female

        5
        PATIENT, LABORATORY
        11-12-60
        11-12-60
        Male

ENTER '^' TO STOP, OR
CHOOSE 1-5: 1 PATIENT, CLINICAL F 4-27-55 4-27-55
                                                                         Female
     1 PATIENT, CLINICAL F SEP 9,2008@03:35:06 PATIENT, CLINICAL F
                                                                                           TCU
    10B2-TEST
     2 PATIENT, CLINICAL F NOV 3,2008@07:20 PATIENT, CLINICAL F
                                                                                       GENERAL
RADIOLOGY
                 10B6-TEST
         PATIENT, CLINICAL F SEP 9,2008@03:35:06
     3
                                                              PATTENT, CLINICAL F
                                                                                           TCU
    10B9-TEST
     4 PATIENT, CLINICAL F SEP 9,2008@03:35:06
                                                             PATTENT, CLINICAL F
                                                                                           TCU
    10BM-TEST
     5 PATIENT, CLINICAL F APR 1,2009@13:22
                                                           PATIENT, CLINICAL F
                                                                                       NM
10C1-TEST
Press <Enter> to see more, '^' to exit this list, OR
CHOOSE 1-5: 1 SEP 9,2008@03:35:06 PATIENT,CLINICAL F
                                                                         TCU
                                                                                  10B2-TEST
 Are you adding 'SEP 9,2008@03:35:06' as a new VISITS? No// yes (Yes)
Select VISIT:
Select CCDA DATA EXPORT CONTROL EXPORT DATETIME:
```

Once the **USER** fields are entered, the record status is **PENDING** and is processed when the **EXPORT DATETIME** arrives.

Testing Notes

How do we know an export is complete?

There are multiple ways.

- The simplest is for the user to subscribe to Free Text notifications in CareVue using Tools > Options > Notifications [Tab] and ensuring that Free Text notifications are checked. With this configured, the Data Export Complete notification (details available on drill-down) is delivered to the user's notifications tab.
- The **View Alerts** menu option in the roll-and-scroll interface always delivers notifications regardless of CareVue configuration.
- One of the last steps performed after CCDA documents are created is to create a log file called



CCDAExportResults.log in the same directory as the CCD documents. Users can monitor the directory for this file.

The user who created the **Data Export** record and the user who last modified the **Data Export** record, if different, are notified when the export is complete.

What details are available in the notification?

The notification includes the location of the output files; how many succeeded and how many failed; errors associated with any failed visit exports; information about rescheduling (if applicable).

What happens if a visit can't be exported?

After retrying the problem visit a few times (currently, 3), the export continues with the next visit. There is information in the log about the failure(s).

Where are the export files?

The output directory acts as a base directory. Beneath that is a directory named after the **HDS Service** (e.g., **PROD-HDSService**) to differentiate which service created which exports. Beneath that is a directory named **ccda-export-YYYY-MM-DD_hhmmss** where **YYYY-MM-DD-hhmmss** is the export datetime as specified in the export record. The CCDA files and log file are found in this directory.

How do we know if an export is running?

The **REPORT^MSCHDSXP** tool, available in the OpenVista prompt, reports on export records in various states. The tool has two parameters: **Status** (e.g., PENDING, COMPLETE, STARTED, ERROR, or a comma-separated list of statuses) is required; **date/time to start reporting** is optional. To see all Pending and Started exports since midnight, use **PROD>D REPORT^MSCHDSXP("P,S","T")**

Another useful report is **D REPORT^MSCHDSXP("C,P,S,E")**, which reports all Complete, Pending, Started and Errored extracts, in that order, scheduled for today (or later).

What happens if an export stops before it is complete?

If GlassFish is restarted or some other system-down event occurs before the export can be completed, it picks back up where it left off when the problem is resolved.

What security is in place to make sure only authorized users can configure a data export job?

A user must have programmer access to modify either of the **CCDA DATA EXPORT** files or even see that the files exist.

Can an authorized user change any field in the CCDA DATA EXPORT CONTROL file via FileMan?

The **CCDA DATA EXPORT CONTROL** file includes many fields besides those in the **USER** group. These fields are manipulated via RPCs by the **HDS Service** and don't allow a FileMan user to make changes.

What happens if an export is scheduled for a date in the past?

Exports scheduled for a date in the past are processed immediately when the **HDS Service** next polls for exports, since the export date/time is satisfied (e.g., current date/time > export date/time).

How often does the HDS Service poll for exports?

Currently, it is configured to poll every 30 seconds.



What happens if the HDS Service doesn't pick up an export request for a significant amount of time (e.g., a week)?

When an export is more than a day old (via the export date), a visit date/time range is supplied and the visit date/time range contains meta specifiers (e.g., T-30), the visit date/time range adjusts according to when the export should have originally kicked off. For example, if an export doesn't kick off for a week and specifies T-30 as the start time, then T-30 minus 1 week is used for the beginning visit date/time range.

How can I configure an export for every visit on a system?

A complete export is an MU requirement. The recommended approach is to specify a visit date/time range that encapsulates every possible visit. For example, T-10000 as the start of the range would go back 10000 days and would probably suffice in most instances.

Since VISIT RANGE BEGIN DATETIME, VISIT RANGE END DATETIME and VISITS multiple are all optional, what happens if a user doesn't configure any of them?

In this case, the status of the export record is **NOT READY** and does not initiate. If a user goes back and supplies visit information, the status changes to **PENDING**. Processing initiates the next time the **HDS Service** polls if the current date is after the export date.

What if a visit date range is specified, but there are no visits within that range?

Nothing is processed and no errors are logged. The user is notified that the export is complete and can see that zero (0) CCDA documents were exported.

How can we test to see if exports resume properly?

- Enter a large visit range (e.g., T-500 to T) to encapsulate many visits.
- Use **D REPORT^MSCHDSXP("S")** to see that the export has started. Note that exported and not-yet-exported visits are in the report, making it simple to monitor the export process.
- Disable the HDS Service in the Admin GlassFish console while the process is ongoing.
- Use **REPORT^MSCHDSXP** to make sure no exports are being processed.
- Enable the service.
- Use REPORT^MSCHDSXP to see that they've resumed.

Can two or more exports occur at the same time?

Yes, multiple can be running at one time. The thread package is configured to allow three to run at any one time. A fourth would have to wait for one of the three to finish before being allowed to run.

How can we test recurring exports if we don't want to wait a day, week, month or year between executions?

Since it is possible to schedule an export for a date in the past, schedule the export to first occur at exactly the amount of time in the past as your **RECURS** value. For example, to test that an export recurs yearly, set the export date/time to **NOW-365** and **RECURS = YEARLY**, along with other valid **USER** group settings. When the **HDS Service** polls, it picks up the year-old export, processes it and reschedules it for one year from that export date/time, which should be just before the current date/time. The **HDS Service** picks it up almost immediately after finishing the first (year-old) one.

Likewise, if:

RECURS = MONTHLY, set the export date/time to NOW-1M



RECURS = WEEKLY, set the export date/time to **NOW-1W**

RECURS = DAILY, set the export date/time to NOW-1

Is it possible to stop the CCDA Extractor task from running after it has been started?

Yes, there are **REST** calls that command the extractor to stop polling, start polling and print a simple status. Suppose the HDS service is named **QA620-HDSService** and runs on port 18280 on the qalinuxgtm01 machine, the following URLs demonstrate the use:

http://qalinuxgtm01:18280/QA620-HDSService/rest/ccda-exporter/stop-polling http://qalinuxgtm01:18280/QA620-HDSService/rest/ccda-exporter/start-polling http://qalinuxgtm01:18280/QA620-HDSService/rest/ccda-exporter/status

Related artifact: 21122

New Audit Report Features

A new option in OpenVista called **MSCR AUDIT REPORT** makes it easier to view changes to the records of a single patient or all patients over a given period. Previously, viewing audits required looking at each file one by one. For audit reporting, it is still necessary to enable auditing for specific files and fields. But the new report provides a consolidated view of changes made across multiple audited files. In addition to displaying audits tracked by FileMan audit logging, this report also can display entries from the Output from the **MSCV AUDIT ITEM** file. The **MSCV AUDIT ITEM** tracks user access to different parts of the patient record such as viewing tabs, printing notes and saving CCDA files.



New parameters associated with MSCR AUDIT REPORT:

Use the XPAR	To specify
MSC AUDIT DEFAULT SORT FIELD	The default field on which to sort the results of the report. 1 DATE/TIME
	2 PATIENT NAME (COMPUTED)
	3 USER
	4 ACTION
	5 FIELD ACTED UPON
MSC AUDIT DEFAULT SORT ORDER	Whether default sort is ascending or descending
MSC AUDIT REPORT DEFAULT FILES	Default list of audited files to display

The **MSCR AUDIT REPORT** can print the results using a template for each entry, or can export a tabular version of the data as a CSV (Comma Separated Values) file.

Caution: Detailed auditing of many files can be resource intensive. Audit reports can also be very long. Some entries have been deleted from the example below.

```
Option entry to test: MSCR AUDIT REPORT
                                              MSC Audit Report
Enter starting date/time: 8/11/17 (AUG 11, 2017)
Enter ending date/time: 8/11/17023:59 (AUG 11, 2017023:59)
Currently Defined Files to be Displayed:
    PATIENT
    ORDER
    PROBLEM
    V HEALTH FACTORS
    V IMMUNIZATION
    V PATIENT ED
Do you want to accept this list? Y// ES
Select only access or changes by a particular user? \rm N//~O
     Select one of the following:
         S
                   Single patient
                   All patients
         Α
Select edits to a single patient, or all patients during the time frame: A// All patients
     Select one of the following:
                  DATE/TIME
         1
         2
                   PATIENT NAME (COMPUTED)
         3
                  USER
         4
                   ACTION
         5
                  FIELD ACTED UPON
Select item to sort by: 1// DATE/TIME
     Select one of the following:
         Α
                   Ascending order
         D
                   Descending order
Select sort order: D// escending order
     Select one of the following:
          Ρ
                   Standard Printed Output
         D
                   Delimited Output
```



Select report output type: P// Standard Printed Output DEVICE: HOME// TELNET Audit Report Selected Date Range : 8/11/17 to 8/11/17@23:59 User Selection : ALL Patient Selection : ALL Sort Selection : DATE/TIME Sort Order : DESCENDING Files with AUDIT entries: MSCV AUDIT ITEM, PATIENT, ORDER, PROBLEM V HEALTH FACTORS, V IMMUNIZATION, V PATIENT ED Files w/o AUDIT entries: DG SECURITY LOG AUDIT FILE ENTRY from PATIENT: NUMBER: 101075 INTERNAL ENTRY NUMBER: 800 DATE/TIME RECORDED: AUG 11,2017@17:36:43 FIELD NUMBER: .01 USER: MANAGER, SYSTEM ACCESSED: INQUIRED TO ENTRY ENTRY NAME (c): TEST, WHILES MENU OPTION USED: MSCR AUDIT REPORT PATIENT (c): TEST, WHILES MSCV AUDIT ITEM ENTRY: TIME: AUG 11,2017017:08:23 USER: LITELLA, EMILY PATIENT: 0 \leftarrow View of "Patient 0" is when no patient is ACTION: QUERY displayed. NOTE: Viewed patient in selector MSCV AUDIT ITEM ENTRY: TIME: AUG 11,2017017:08:11 USER: LITELLA, EMILY ACTION: PRINT PATIENT: TEST, WHILES DEVICE: Device: Brother HL-2170W (redirected 48) INFORMATION TYPE: MEDICAL RECORD Progress Notes MSCV AUDIT ITEM ENTRY: TIME: AUG 11,2017017:07:45 USER: LITELLA, EMILY ACTION: QUERY PATIENT: TEST, WHILES NOTE: Viewed 'Notes' tab in CareVue MSCV AUDIT ITEM ENTRY: USER: LITELLA, EMILY TIME: AUG 11,2017017:07:36 ACTION: QUERY PATIENT: TEST, WHILES NOTE: Viewed patient chart MSCV AUDIT ITEM ENTRY: TIME: AUG 11,2017017:07:36 USER: LITELLA, EMILY ACTION: QUERY PATIENT: TEST, WHILES NOTE: Viewed patient in selector < ... similar entries deleted ... > MSCV AUDIT ITEM ENTRY: TIME: AUG 11,2017016:56:09 USER: LITELLA, EMILY ACTION: QUERY PATIENT: 0 NOTE: Viewed patient in selector MSCV AUDIT ITEM ENTRY: TIME: AUG 11,2017@16:56 USER: LITELLA, EMILY ACTION: COPY PATIENT: TEST, WHILES INFORMATION TYPE: VIEW DOWNLOAD TRANSMIT



MSCV AUDIT ITEM ENTRY: TIME: AUG 11,2017016:55:35 USER: LITELLA, EMILY ACTION: QUERY PATIENT: TEST, WHILES NOTE: Viewed 'Orders' tab in CareVue AUDIT FILE ENTRY from PROBLEM: NUMBER: 53 INTERNAL ENTRY NUMBER: 1061 DATE/TIME RECORDED: AUG 11,2017016:55:07 FIELD NUMBER: 80002 USER: LITELLA, EMILY MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): R69. FIELD NAME (c): SNOMED CT DESIGNATION CODE OLD VALUE (c): 20652013 PATIENT (c): TEST, WHILES NEW VALUE (c): 25292015 < ... similar entries deleted ... > AUDIT FILE ENTRY from PROBLEM: NUMBER: 49 INTERNAL ENTRY NUMBER: 1061 DATE/TIME RECORDED: AUG 11,2017016:54:02 FIELD NUMBER: 1.03 USER: LITELLA, EMILY NEW INTERNAL VALUE: 175 DATATYPE OF NEW VALUE: P200'a MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): R69. FIELD NAME (c): ENTERED BY OLD VALUE (c): OLD VALUE (c): TEST,WHILES NEW VALUE (c): LITELLA, EMILY AUDIT FILE ENTRY from PROBLEM: NUMBER: 48 INTERNAL ENTRY NUMBER: 1061 DATE/TIME RECORDED: AUG 11,2017@16:54:02 FIELD NUMBER: .08 USER: LITELLA, EMILY NEW INTERNAL VALUE: 3170811 DATATYPE OF NEW VALUE: RDIa MENU OPTION USED: CIAV VUECENTRIC FIELD NAME (c): <mark>Date entered</mark> ENTRY NAME (c): R69. OLD VALUE (c): <no previous value> PATIENT (c): TEST,WHILES NEW VALUE (c): AUG 11,2017 AUDIT FILE ENTRY from PROBLEM: NUMBER: 47 INTERNAL ENTRY NUMBER: 1061 DATE/TIME RECORDED: AUG 11,2017016:54:02 FIELD NUMBER: .02 USER: LITELLA, EMILY NEW INTERNAL VALUE: 800 DATATYPE OF NEW VALUE: RP9000001'Ia MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): R69. FIELD NAME (c): PATIENT NAME OLD VALUE (c): OLD VALUE (c): TEST, WHILES NEW VALUE (c): TEST, WHILES AUDIT FILE ENTRY from PROBLEM: NUMBER: 46 INTERNAL ENTRY NUMBER: 1061 DATE/TIME RECORDED: AUG 11,2017016:54:02 FIELD NUMBER: .01 USER: LITELLA, EMILY RECORD ADDED: Added Record NEW INTERNAL VALUE: 569632 DATATYPE OF NEW VALUE: R*P80'a MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): R69. FIELD NAME (c): DIAGNOSIS OLD VALUE (c): <<u>no previous value></u> PATIENT (c): TEST,WHILES NEW VALUE (c): <u>Z89.439</u> AUDIT FILE ENTRY from ORDER: NUMBER: 679 INTERNAL ENTRY NUMBER: 12266,1 DATE/TIME RECORDED: AUG 11,2017016:53:10 USER: LITELLA, EMILY FIELD NUMBER: .1,.01 RECORD ADDED: Added Record NEW INTERNAL VALUE: 1964 DATATYPE OF NEW VALUE: MP101.43'a MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): 12266 FIELD NAME (c): ORDERABLE ITEMS, ORDERABLE ITEM OLD VALUE (c): <no previous value> PATIENT (c): TEST, WHILES NEW VALUE (c): ASPIRIN TAB, CHEWABLE



AUDIT FILE ENTRY from ORDER: INTERNAL ENTRY NUMBER: 12266 NUMBER: 678 DATE/TIME RECORDED: AUG 11,2017@16:53:10 FIELD NUMBER: 4 USER: LITELLA, EMILY NEW INTERNAL VALUE: 3170811.1653 DATATYPE OF NEW VALUE: Da MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): 12266 FIELD NAME (c): WHEN ENTERED OLD VALUE (c): <no previous value> PATIENT (c): TEST, WHILES NEW VALUE (c): AUG 11,2017@16:53 AUDIT FILE ENTRY from ORDER: NUMBER: 677 INTERNAL ENTRY NUMBER: 12266 DATE/TIME RECORDED: AUG 11,2017016:53:10 FIELD NUMBER: 3 USER: LITELLA, EMILY NEW INTERNAL VALUE: 175 DATATYPE OF NEW VALUE: P200'a MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): 12266 FIELD NAME (c): WHO ENTERED OLD VALUE (c): <no previous value> PATIENT (c): TEST, WHILES NEW VALUE (c): LITELLA, EMILY AUDIT FILE ENTRY from ORDER: NUMBER: 676 INTERNAL ENTRY NUMBER: 12266 DATE/TIME RECORDED: AUG 11,2017016:53:10 FIELD NUMBER: .02 USER: LITELLA, EMILY NEW INTERNAL VALUE: 800;DPT(DATATYPE OF NEW VALUE: RVa MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): 12266 FIELD NAME (c): OBJECT OF ORDER OLD VALUE (c): <no previous value> PATIENT (c): TEST, WHILES NEW VALUE (c): TEST, WHILES MSCV AUDIT ITEM ENTRY: TIME: AUG 11,2017016:52:20 USER: LITELLA, EMILY ACTION: QUERY PATIENT: TEST, WHILES NOTE: Viewed 'Orders' tab in CareVue MSCV AUDIT ITEM ENTRY: TIME: AUG 11,2017016:51:17 USER: LITELLA, EMILY ACTION: OUERY PATIENT: TEST, WHILES NOTE: Viewed 'Notes' tab in CareVue AUDIT FILE ENTRY from V IMMUNIZATION: NUMBER: 9 INTERNAL ENTRY NUMBER: 323 DATE/TIME RECORDED: AUG 11,2017016:51:08 FIELD NUMBER: .05 USER: LITELLA, EMILY OLD INTERNAL VALUE: 8 DATATYPE OF OLD VALUE: *P9999999.41'a MENU OPTION USED: CIAV VUECENTRIC FIELD NAME (c): LOT OLD VALUE (c): ABC234 NEW VALUE (c): <deleted> AUDIT FILE ENTRY from V IMMUNIZATION: NUMBER: 8 INTERNAL ENTRY NUMBER: 323 DATE/TIME RECORDED: AUG 11,2017016:51:08 FIELD NUMBER: .03 USER: LITELLA, EMILY OLD INTERNAL VALUE: 2271 DATATYPE OF OLD VALUE: R*P9000010'Ia MENU OPTION USED: CIAV VUECENTRIC FIELD NAME (c): VISIT OLD VALUE (c): JAN 20,2016013:03:43 NEW VALUE (c): <deleted> AUDIT FILE ENTRY from V IMMUNIZATION: NUMBER: 7 INTERNAL ENTRY NUMBER: 323 DATE/TIME RECORDED: AUG 11,2017@16:51:08 FIELD NUMBER: .02 USER: LITELLA, EMILY OLD INTERNAL VALUE: 800 DATATYPE OF OLD VALUE: RP9000001'Ia MENU OPTION USED: CIAV VUECENTRIC FIELD NAME (c): PATIENT NAME OLD VALUE (c): TEST, WHILES NEW VALUE (c): <deleted>



AUDIT FILE ENTRY from V IMMUNIZATION: NUMBER: 6 INTERNAL ENTRY NUMBER: 382 DATE/TIME RECORDED: AUG 11,2017@16:51:08 FIELD NUMBER: 1216 USER: LITELLA, EMILY NEW INTERNAL VALUE: 3170811.165108 DATATYPE OF NEW VALUE: Da MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): ZOSTER FIELD NAME (c): DATE/TIME ENTERED OLD VALUE (c): <no previous value> PATIENT (c): TEST, WHILES NEW VALUE (c): AUG 11,2017016:51:08 AUDIT FILE ENTRY from V IMMUNIZATION: NUMBER: 5 INTERNAL ENTRY NUMBER: 382 DATE/TIME RECORDED: AUG 11,2017@16:51:08 FIELD NUMBER: 1217 USER: LITELLA, EMILY NEW INTERNAL VALUE: 175 DATATYPE OF NEW VALUE: P200'a MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): ZOSTER FIELD NAME (c): ENTERED BY OLD VALUE (c): <no previous value> PATTENT (c): TEST, WHILES NEW VALUE (c): LITELLA, EMILY AUDIT FILE ENTRY from V IMMUNIZATION: NUMBER: 4 INTERNAL ENTRY NUMBER: 382 DATE/TIME RECORDED: AUG 11,2017@16:51:08 FIELD NUMBER: .05 USER: LITELLA, EMILY NEW INTERNAL VALUE: 12 DATATYPE OF NEW VALUE: *P9999999.41'a MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): ZOSTER FIELD NAME (c): LOT OLD VALUE (c): <no previous value> PATIENT (c): TEST, WHILES NEW VALUE (c): D5551T AUDIT FILE ENTRY from V IMMUNIZATION: NUMBER: 3 INTERNAL ENTRY NUMBER: 382 DATE/TIME RECORDED: AUG 11,2017016:51:08 FIELD NUMBER: .03 USER: LITELLA, EMILY NEW INTERNAL VALUE: 2271 DATATYPE OF NEW VALUE: R*P9000010'Ia MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): ZOSTER FIELD NAME (c): VISIT OLD VALUE (c): <no previous value> PATIENT (c): TEST, WHILES NEW VALUE (c): JAN 20,2016@13:03:43 AUDIT FILE ENTRY from V IMMUNIZATION: NUMBER: 2 INTERNAL ENTRY NUMBER: 382 DATE/TIME RECORDED: AUG 11,2017@16:51:08 FIELD NUMBER: .02 USER: LITELLA, EMILY NEW INTERNAL VALUE: 800 DATATYPE OF NEW VALUE: RP9000001'Ia MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): ZOSTER FIELD NAME (c): PATIENT NAME OLD VALUE (c): <no previous value> PATIENT (c): TEST, WHILES NEW VALUE (c): TEST, WHILES AUDIT FILE ENTRY from V IMMUNIZATION: NUMBER: 1 INTERNAL ENTRY NUMBER: 382 DATE/TIME RECORDED: AUG 11,2017016:51:08 FIELD NUMBER: .01 USER: LITELLA, EMILY RECORD ADDED: Added Record NEW INTERNAL VALUE: 227 DATATYPE OF NEW VALUE: RP9999999.14'a MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): ZOSTER FIELD NAME (c): IMMUNIZATION OLD VALUE (c): <no previous value> PATIENT (c): TEST, WHILES NEW VALUE (c): ZOSTER AUDIT FILE ENTRY from V IMMUNIZATION: NUMBER: 15 INTERNAL ENTRY NUMBER: 382 DATE/TIME RECORDED: AUG 11,2017@16:51:08 FIELD NUMBER: 1217 USER: LITELLA, EMILY OLD INTERNAL VALUE: 175 DATATYPE OF OLD VALUE: P200'a NEW INTERNAL VALUE: 173 DATATYPE OF NEW VALUE: P200'a MENU OPTION USED: CIAV VUECENTRIC



ENTRY NAME (c): ZOSTER FIELD NAME (c): ENTERED BY OLD VALUE (c): LITELLA, EMILY PATIENT (c): TEST, WHILES NEW VALUE (c): NICKLAS, FLOYD M AUDIT FILE ENTRY from V IMMUNIZATION: NUMBER: 14 INTERNAL ENTRY NUMBER: 382 DATE/TIME RECORDED: AUG 11,2017@16:51:08 FIELD NUMBER: 1216 USER: LITELLA, EMILY OLD INTERNAL VALUE: 3170811.165108 DATATYPE OF OLD VALUE: Da NEW INTERNAL VALUE: 3160210.070949 DATATYPE OF NEW VALUE: Da MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): ZOSTER FIELD NAME (c): DATE/TIME ENTERED OLD VALUE (c): AUG 11,2017016:51:08 PATIENT (c): TEST, WHILES NEW VALUE (c): FEB 10,2016@07:09:49 AUDIT FILE ENTRY from V IMMUNIZATION: INTERNAL ENTRY NUMBER: 382 NUMBER: 13 DATE/TIME RECORDED: AUG 11,2017@16:51:08 FIELD NUMBER: 1217 USER: LITELLA, EMILY OLD INTERNAL VALUE: 175 DATATYPE OF OLD VALUE: P200'a NEW INTERNAL VALUE: 175 DATATYPE OF NEW VALUE: P200'a MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): ZOSTER FIELD NAME (c): ENTERED BY OLD VALUE (c): LITELLA, EMILY PATIENT (c): TEST, WHILES NEW VALUE (c): LITELLA, EMILY < ... similar entries deleted ... > AUDIT FILE ENTRY from V HEALTH FACTORS: NUMBER: 4 INTERNAL ENTRY NUMBER: 432 DATE/TIME RECORDED: AUG 11,2017@16:50:29 FIELD NUMBER: 1218 USER: LITELLA, EMILY NEW INTERNAL VALUE: 3170811.165029 DATATYPE OF NEW VALUE: Da MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): CURRENT EVERY DAY SMOKER FIELD NAME (c): DATE/TIME LAST MODIFIED OLD VALUE (c): <no previous value> PATIENT (c): TEST, WHILES NEW VALUE (c): AUG 11,2017@16:50:29 AUDIT FILE ENTRY from V HEALTH FACTORS: INTERNAL ENTRY NUMBER: 432 NUMBER: 3 DATE/TIME RECORDED: AUG 11,2017@16:50:29 FIELD NUMBER: 1217 USER: LITELLA, EMILY NEW INTERNAL VALUE: 175 DATATYPE OF NEW VALUE: P200'a MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): CURRENT EVERY DAY SMOKER FIELD NAME (c): ENTERED BY OLD VALUE (c): <no previous value> NEW VALUE (c): LITELLA, EMILY PATIENT (c): TEST, WHILES AUDIT FILE ENTRY from V HEALTH FACTORS: NUMBER: 2 INTERNAL ENTRY NUMBER: 432 DATE/TIME RECORDED: AUG 11,2017@16:50:28 FIELD NUMBER: .02 USER: LITELLA, EMILY NEW INTERNAL VALUE: 800 DATATYPE OF NEW VALUE: RP9000001'Ia MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): CURRENT EVERY DAY SMOKER FIELD NAME (c): PATIENT NAME OLD VALUE (c): <no previous value> PATIENT (c): TEST, WHILES NEW VALUE (c): TEST, WHILES AUDIT FILE ENTRY from V HEALTH FACTORS: NUMBER: 1 INTERNAL ENTRY NUMBER: 432 DATE/TIME RECORDED: AUG 11,2017@16:50:28 FIELD NUMBER: .01 USER: LITELLA, EMILY RECORD ADDED: Added Record NEW INTERNAL VALUE: 58050 DATATYPE OF NEW VALUE: R*P9999999.64'a MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): CURRENT EVERY DAY SMOKER OLD VALUE (c): <no previous value> FIELD NAME (c): HEALTH FACTOR



PATIENT (c): TEST, WHILES NEW VALUE (c): CURRENT EVERY DAY SMOKER AUDIT FILE ENTRY from V PATIENT ED: NUMBER: 4 INTERNAL ENTRY NUMBER: 362 DATE/TIME RECORDED: AUG 11,2017@16:50:14 FIELD NUMBER: .01 USER: LITELLA, EMILY OLD INTERNAL VALUE: 50052 DATATYPE OF OLD VALUE: R*P9999999.09'Oa MENU OPTION USED: CIAV VUECENTRIC FIELD NAME (c): TOPIC OLD VALUE (c): STRK-LITERATURE NEW VALUE (c): <deleted> AUDIT FILE ENTRY from V PATIENT ED: NUMBER: 3 INTERNAL ENTRY NUMBER: 362 DATE/TIME RECORDED: AUG 11,2017@16:50:14 USER: LITELLA, EMILY FIELD NUMBER: 1217 OLD INTERNAL VALUE: 173 DATATYPE OF OLD VALUE: P200'a MENU OPTION USED: CIAV VUECENTRIC OLD VALUE (c): NICKLAS, FLOYD M FIELD NAME (c): ENTERED BY NEW VALUE (c): <deleted> AUDIT FILE ENTRY from V PATIENT ED: NUMBER: 2 INTERNAL ENTRY NUMBER: 362 DATE/TIME RECORDED: AUG 11,2017@16:50:14 FIELD NUMBER: 1216 USER: LITELLA, EMILY MENU OPTION USED: CIAV VUECENTRIC FIELD NAME (c): DATE/TIME ENTERED OLD VALUE (c): MAR 2,2016@09:24:24 NEW VALUE (c): <deleted> AUDIT FILE ENTRY from V PATIENT ED: NUMBER: 1 INTERNAL ENTRY NUMBER: 362 DATE/TIME RECORDED: AUG 11,2017@16:50:14 FIELD NUMBER: .02 USER: LITELLA, EMILY OLD INTERNAL VALUE: 800 DATATYPE OF OLD VALUE: RP9000001'Ia MENU OPTION USED: CIAV VUECENTRIC FIELD NAME (c): PATIENT NAME OLD VALUE (c): TEST, WHILES NEW VALUE (c): <deleted> MSCV AUDIT ITEM ENTRY: TIME: AUG 11,2017016:49:14 USER: LITELLA, EMILY ACTION: QUERY PATIENT: TEST, WHILES NOTE: Viewed patient chart AUDIT FILE ENTRY from PATIENT: NUMBER: 101071 INTERNAL ENTRY NUMBER: 800 DATE/TIME RECORDED: AUG 11,2017@16:49:14 FIELD NUMBER: .01 USER: LITELLA, EMILY ACCESSED: INQUIRED TO ENTRY MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): TEST, WHILES PATIENT (c): TEST, WHILES AUDIT FILE ENTRY from PATIENT: NUMBER: 101070 INTERNAL ENTRY NUMBER: 800 DATE/TIME RECORDED: AUG 11,2017016:49:14 FIELD NUMBER: .01 USER: LITELLA, EMILY ACCESSED: INQUIRED TO ENTRY MENU OPTION USED: CIAV VUECENTRIC ENTRY NAME (c): TEST, WHILES PATIENT (c): TEST, WHILES AUDIT FILE ENTRY from PATIENT: NUMBER: 101069 INTERNAL ENTRY NUMBER: 800 DATE/TIME RECORDED: AUG 11,2017016:49:14 FIELD NUMBER: .01 USER: LITELLA, EMILY MENU OPTION USED: CIAV VUECENTRIC ACCESSED: INQUIRED TO ENTRY ENTRY NAME (c): TEST, WHILES PATIENT (c): TEST, WHILES

Related artifact: 20887