

# RADIOLOGY EXTRACTS

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C: 339-237-1540  
September 18, 2018

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## Business Requirement

The purpose of these projects are to provide third parties with files generated out of Discern/CCL:  
The program shares the same qualifications for each of the files generated, but the data differs.

- 1) Demographic - The demographic file contains patient registration, insurance, NOK, guarantor and health plan information. It does not contain any radiology exam detail.
- 2) Dictation - The dictation file includes a patient header and the dictated note and a signature footer.
- 3) Reconciliation - The reconciliation file is a combination of patient identifiers and order exam information, minus the dictation.

Each project shares the base code, but there the some differences/uniqueness, as described for each below.

## Change Requests

### Vista [CR 1531](#)

#### Qualifications

- 1) Exams – Any exam that is read that has been marked as a final or addended within the timeframe, location, and physician criteria. Excluded are any exams with accessions with CA, NP, or SC in the accession number.
- 2) Physicians

ADDONIZIO, STEVEN J MD  
ADLER, MICHAEL B MD  
ALDER, TIMOTHY LESLIE MD  
ARMSTRONG, SHERI W MD  
BARAT, GUY R MD  
BARKER, RACHEL M MD  
BARROW, BRENT A MD  
BILYEU, SAMUEL P MD  
BLUE, MELINDA H MD  
BURDICK, EMILY J MD  
CAMPBELL, PAUL DENNIS MD  
CONRAD, ANDREW B MD  
DEEN, JASON BRANT MD  
DELOZIER, HUGH H MD  
EMANUEL, PETER G MD  
FEASTER, SAMUEL H MD  
GRAHAM, GARTH PRINSLOO MD

HARP, DARYL L MD  
HIXSON, HARRY ROBERT MD  
HOLMES, WILLIAM S MD  
HOVIS, CHRISTOPHER L MD  
HUDNALL, TIMOTHY W PA  
JUNG, GLENN EDWARD MD  
KESSI, MONICA JEAN MD  
KIM, HEJUNG MD  
KNIGHT, STEVEN B MD  
MANZANERO, PHILIP LAURENCE MD  
MCLEAN, FREDERICK M MD  
MEAD, GEORGE O MD  
MESERVY, CLIFFORD J MD  
REPKA, STEVEN EDWARD MD  
ROBERTS, SIDNEY CHARLES MD  
ROESCH, JEFFREY MD  
ROULIER, GAYLE E MD

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SANTEE, ROBERT H MD  
SQUIRES, AMANDA B MD  
TEXADA, JOHN COLLINS MD  
VAN, THANH THI MD  
VARGO, JEFFREY PAUL MD

VU, THUY L MD  
WEGRYN, SCOTT MD  
WILLIAMS, JOHN POWELL MD  
WOODWARD, BRITTON KEITH MD  
YAMADA, DONOVAN LYLE MD

## 3) Locations

Regional, Loudoun, Parkwest, LeConte, Roane, plus practice sites (see [spreadsheet](#))

## Files

- 1) Demographic – `yyyymmdd_cer.vst`
- 2) Dictation – `vistacodeyyyymmdd_cer.del`
- 3) Reconciliation – `vistareconyyyymmdd_cer.tab`

## Scheduling

- 1) Demographic – Runs daily , 3 day lookback, for 24 hour period
- 2) Dictation – Runs daily, 3 day lookback, for 24 hour period
- 3) Reconciliation – runs monthly, 3<sup>rd</sup> day of the month, for the previous month

## MBM [CR 1532](#)

## Qualifications

- 1) Exams – Any exam that is read that has been marked as a final or addended within the timeframe, location, and physician criteria. Excluded are any exams with accessions with CA, NP, or SC in the accession number.
- 2) Physicians, including VRAD:

AHMED, SHAWN IBRAR MD  
BABUSIS, ALGIS V MD  
BARRON, DAVID M MD  
BLATT, ELLEN ROSE MD  
BONETTI, RENEE WITTENDORFE MD  
BOSH, GREGORY ALAN MD  
BOZMAN, RAYMOND ELWOOD MD  
BRECKWOLDT, REID D MD  
BRONSTEIN, YULIA L MD

BROWNING, JARED C MD  
BURDETTE, DAVID DUKE MD  
BURKHOLZ, KIMBERLY J MD  
CASEY, KRISTIN L MD  
COLBY, JAY M MD  
DANN, PHOEBE HOPE MD  
DERR, DAVID R MD  
DYM, JEAN-PAUL MD  
FALISZEK, JAMES E MD

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FERNANDEZ, JAMES REZA MD	PAPPAS, CHARLES NICHOLAS MD
GIOVANNETTI, MARK JOSEPH MD	PIRKLE, JACOB K MD
GORADIA, DHAWAL A MD	POLLARD, BRADLEY MD
GREENSPAN, STACY LYNN DO	RAUSCH, ROBERT O MD
GUTIERREZ, JENNIFER SUR MD	REX, DAVID L MD
HAL, JEFFREY TERRANCE MD	RIDEAU, ALECIA M MD
HAMBURG, CAROLE S MD	SARAI, PAUL S MD
HARRIGAL, CHIVONNE L MD	SCIULLI, ROBERT LOUIS MD
HURT, CHRISTOPHER J MD	SHAFFREY, JULIE K MD
IZADI, KAMRON MD	SHELDON, LUCAS M MD
JONES, NORMAN E MD	SLOVES, JAMES H MD
KARIDAS, STEVEN MD	SNODGRASS, DOUGLAS DAVID MD
KIM, DAVID YOUNG MD	TORTORELLI, CYNTHIA L MD
LANOUE, MARK ZAK MD	TRAMONTANA, JAMES M MD
LEMOND, THOMAS C MD	TRAVIS, MITCHELL E MD
LUTTRELL, LINDSAY GEORGE MD	UNSELL, BRYAN J MD
MACFARLANE, PATRICIA OWENS MD	VRLA, ROLF F MD
MACK, JOSEPH MD	WATTS, ROBERT EDWARD MD
MARINO JR, PHILIP JR,	WOLKE, IRA STEPHEN MD
PHILIP ANTHONY MD	WONG, WILLIAM JOSEPH MD
MYERS, WENDELL STEPHEN MD	YOSKIN, MAURICE PRATT MD
NWANKWO, JOHN IKECHI MD	

### 3) Locations

Regional, LeConte, Parkwest, Loudoun, Roane, plus practice sites (see [spreadsheet](#))

## Files

- 1) Demographic – yyyyymmdd\_cer.mbm
- 2) Dictation – mbmcodeyyyyymmdd\_cer.del
- 3) Reconciliation – DA2 report file mbmdaily.xls  
(NOTE – the ftp process renames to include the date)

## Scheduling

- 1) Demographic – Runs daily , 3 day lookback, for 24 hour period
- 2) Dictation – Runs daily, 1 day lookback, for 24 hour period
- 3) Reconciliation – runs daily, for the previous day

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## AUR CR 1533

### Qualifications

- 1) Exams – Any exam that is read that has been marked as a final or addended within the timeframe, location, and physician criteria. Excluded are any exams with accessions with CA, NP, or SC in the accession number.

- 2) Physicians

AHMED, SHAWN IBRAR MD  
AIKEN, MARTHA HENDERSON RN  
ALDERMAN, DANIEL FRANCIS MD  
ALLEN, ANTON MARKERT MD  
BALIUS, ANASTASIA MARIE MD  
BENTON, DARRELL A MD  
BOYD, JAMES W MD  
BRADLEY, YONG C MD  
BROWN, PATRICK A MD  
BROWN, STEPHEN JOHN MD  
CALHOUN, SHANNON P DO  
CALLAWAY, EDWARD CHARLES MD  
CARBAJAL, SCOTT ANDREW MD  
CHACKO, GEORGE MD  
CHAPMAN, TAMMY M RN  
CHAUDHRY, FAHD ABDULLAH MD  
CULROSS, PAMELA RN  
DAKER, RASHAD MD  
DELK, KEVIN SHAYNE MD  
DIXON, JOSEPH T MD  
ECKARD, VALERIE ROCKWELL MD  
EMBRY, SCOTT DWAYNE MD  
FATHY, DANA BIRKLEY MD  
FERRELL, ANDREW STEPHEN MD  
FOX, DANIEL R MD  
FU, YITONG MD  
GARCIA, KIMBERLY A MD  
GASH, JUDSON ROY MD  
GOODMAN, MARGARET M MD  
GOOGE, JOSEPH M MD  
GRAY, RICHARD IAN MD  
HUDSON, KATHLEEN MD  
INGRAM, AMANDA K MD  
KAFFENBERGER, DOUGLAS ALLE MD  
KING, TAMELA K LCSW

KNIGHT, GEORGE FREDERICK MD  
KNIGHT, STEVEN PATRICK MD  
KVAMME, PETER MD  
LAING, GEOFFREY GLYNN MD  
LESCHAK, STEPHEN A MD  
MATHIS, EMILY LAY APN  
MCELMURRAY, JAMES H MD  
MCKINNEY, J MARK MD  
MINNICH, MORGAN HENRY APN  
MODAHL, LUCY ELIZABETH MD  
MOORE, WILLIAM R MD  
MORIN-DUCOTE, GARNETTA IOA MD  
NOE, JACOB AARON MD  
ORMSBY, CHRISTINE B MD  
PATEL, PRATUL MEHENDRA MD  
PEARSON, RON HUNTER MD  
PEEKE, JEFFREY WILSON MD  
PETROVICH, LINDA MICHELLE MD  
PETRUZZI, PETER T MD  
PFLANZE, WILLIAM T MD  
PIAMPIANO, PETER PAUL MD  
REUSS, PETER MATTHEW MD  
ROBERTS, ROXSANN LEE MD  
RULE, KENNETH A MD  
SCHRUFF, LOUIS MCCALL MD  
SHORE, BRADLEY SCOTT MD  
SNIDOW, JOHN JOSEPH MD  
TAYLOR-GANTTE, DEANNA FAYE MD  
VERMILLION, SCOT STANLEY MD  
WELLS, KAREN MD  
WHEELER, CYNTHIA KIM  
WITTRAM, CONRAD MD  
YOPP, LISA B APN  
ZENG, RONG MD

- 3) Locations

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Regional and LeConte

## Files

- 4) Demographic – `aurcovdemogyyyyymmdd_cer.txt`
- 5) Dictation – `aur_codeyyyyymmdd_cer.txt`
- 6) Reconciliation – `aurdailyyyyyymmdd_cer.txt`

## Scheduling

- 4) Demographic – Runs daily , 3 day lookback, for 24 hour period
- 5) Dictation – Runs daily, 3 day lookback, for 24 hour period
- 6) Reconciliation – Runs daily, 3 day lookback, for 24 hour period

## Source Code and Supporting Documentation

Links to the source code backup copies

[Vista](#)

[MBM](#)

[AUR](#)

## Developer Notes

- 1) Prompts
  - a. Locations – The location prompt has been built out for each, but is currently not used, the code defaults to Any(\*) and unless you manually run it for a specific single facility, it will run for all. There are too many caveats to the various ways radiology exams are stored, so it was failing to capture ALL exams when trying to use a list of locations.
  - b. Prompt executables – The prompts for facility call separate programs so it's a good example for when you are trying to do that work for other CRs
- 2) Plan statement challenges
  - a. Clinical event – Do not join on `event_id` or `encntr_id`! Sounds counter-intuitive but the join should be on `order_id` and then join to the `ce_blob` table to ensure you capture the patients' exam dication's `clinical_event` finalized row(s).

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- b. Radiology tables – original plan statement planned from the encounter table but it was more efficient to join off the OMF\_RADMGMT\_ORDER\_ST radiology table for the loc\_at\_exam\_cmplt\_cd value
- c. Code Value Outbound – there is a subroutine in the code I wrote to grab the alias off the code\_value\_outbound table for the “COVENANT” contributor source. It passes the code value for things like employment status, marital code, relationship code, gender, etc.

## 3) Formatting

- a. Specification challenges – the best specification was Vista’s web based spec. The best method for building out my code was from the legacy sql statements and the sample output files from legacy provided to me by David Thornton, Martin Henning, and Mike Riley.
- b. Dictation code sensitivity and no changes to the blob – it is HIGHLY advised to not change the dictation output code in each of the programs that contain the uncompressing code, unless it is discovered there is a bug. The slightest of changes, such as adding a sort order, adding a field in the select, has negatively impacted the output, and I have always had to revert back to the original method in which I wrote it.
- c. Demographic - the code has many of the necessary subroutines for capturing all details of patients’ encntr\_plan\_reln (encounter plan relationships) such as primary, secondary, and tertiary insurances, guarantor, addresses, phone numbers, relationship types, authorizations, etc.
- d. Reconciliation – The reconciliation files are pretty straight forward as they contain the least amount of data elements and serve as a file to help the receiver of the data reconcile the two files.

## 4) Blob extraction issues

- a. Link to the very informative [uCern discussion](#) on uncompressing the blob and the dummy table join issue. This explains why I developed that the way I did. Do not change the sort order or any of the dictation file coding, or you run the risk of some big errors such as the wrong dictation paired with the wrong headers, or the same dictated note repeating itself for every record.

## 5) Scheduling

- a. Ops Scheduling – The scheduled jobs are pretty straightforward because I am writing out to a-stream within the source code, rather than a separate ops job. I have not run into any issues with files not moving from cer\_temp to Astream.

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## Project contacts

### Covenant Health

- Shelly Susong – RadNet solution team - [shampton@CovHlth.com](mailto:shampton@CovHlth.com)
- Mike Riley – ftp and Astream resource - [Mriley2@CovHlth.com](mailto:Mriley2@CovHlth.com)

### Vista

- Jeremy Davis – DBA and main contact - [jdavis@vistaradiology.com](mailto:jdavis@vistaradiology.com)
  - Office: (865) 549-5504
  - Mobile: (865) 696-2917
- Jane Seitz – Leadership - [JSeitz@vistaradiology.com](mailto:JSeitz@vistaradiology.com)

### MBM

- Jodi Stokes – main contact - (423)826-8220 ext 228 email: [jodi@medbillmgmt.com](mailto:jodi@medbillmgmt.com)
- Kim Edgeworth – Leadership - (866) 730.5619 ext. 224 email: [kim@mbmradiology.com](mailto:kim@mbmradiology.com)

### AUR

- Laurie Brock - [LBrock@utrad.com](mailto:LBrock@utrad.com)