



LOUISIANA DEPT. OF HEALTH & HOSPITALS

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Medicaid Eligibility Data System

# Internal Design: MAS Interface



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## Document Information

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## *Revision Summary*

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The following revisions have been made to the document since it was first published:

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5/1/2003	Revised with RedMane template	M. Smutko
5/20/2011	SIR1701 – Documentation cleanup	E. Fontes

# MAS Interface

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## *Overview*

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MAS (Medicaid Application System) is a PC based system used by parish offices for Application Tracking and Resource Eligibility Determination. The MAS interface allows existing case information (Name, Address, Social Security Number, etc.) to be copied from the MEDS system into the MAS system. This will help reduce the amount of duplicate data entry by the parish offices.

The MAS Application will retrieve data from two MAS specific on-line query screens:

- Query by SSN
- Query by Person Num, Case Num, CPTC

In addition to the two queries there will also be a MAS Interface Subsystem Menu screen. This screen is used to navigate to the MAS Interface Query Screens. It is available from the Interfaces Subsystem Menu (which is accessed via the MEDS main menu and Administration subsystem screens).

## *Volumes/Frequency*

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Extract of data from MEDS – On Request.

## *Security Issues*

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Security (restriction access to only MAS users) for these functions will be handled via the standard MEDS security subsystem.

## *Technical Issues*

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The MAS system utilizes a HLLAPI (High Level Language Application Program Interface) utility – in this case, FoxPro5 - to copy or “screen scrape” the MEDS information from the MEDS screen buffer (80 characters by 24 lines) into the local application. It is the responsibility of the MAS system to retrieve the appropriate data from the MEDS screen displays.

MEDS “Direct Command” processing will be used by the MAS HLLAPI utility to navigate (“call”) the appropriate MEDS functions and to pass the associated input data.

A tag (screen name) at the top of each query is required by the HLLAPI utility to confirm the correct screen navigation has occurred. The standard MEDS screen heading can be used for this requirement.

A tag is required on the query screens by the HLLAPI utility to identify when scrolling (PF8) is required to obtain all the information required (i.e. when more data exists than can fit onto the current screen). That field is identified as:

- More Text (A24)

Valid Values: “No more Client case data”; “...more on next screen”. When the latter value is displayed, the next screen of additional information can be viewed by pressing the PF8 key.

## *Direct Command Processing*

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For more information on MEDS “Direct Command” processing, refer to the System Wide Standards External Design document.

## MAS Interface Subsystem Menu

```

MAS                                     *** M.E.D.SYSTEM ***          *DATE
MEIMASM                                MAS INTERFACE SUBSYSTEM MENU      *TIME

      Id Tran      Description
      -----
      1 MASQ1      MAS Query by SSN
      2 MASQ2      MAS Query by Person Num, Case Num, CPTC

Id/*Tran: _____ Act: _ Key:
-----
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---
PF12---
      Help Main Retn Quit
Message Line...

```

This window will be used to navigate to the MAS Interface Query Screens and is accessed from the Interfaces Subsystem menu, which is found under the Administration Subsystem Menu.

## Query by SSN (MEIMASQ1)

The Query by SSN window provides the Person Number and all associated Case Numbers (even "closed") for which a given individual (uniquely identified by Social Security Number) is the Client. It is possible for a person to belong to several different cases as a Client.

The MAS system will use this screen to "scrape" the MEDS case information from the screen buffer using the HLLAPI utility. This information will be used by a MAS worker to identify the Case Number and CPTC details from which the MEDS information will eventually be retrieved.

### Screen Layout:

MASQ1		*** M.E.D.SYSTEM ***						*DATE
MEIMASQ1		MAS INTERFACE QUERY BY SSN						*TIME
*Action: _ (C,D,N)								
SSN : 999-99-9999								
Name : DOE, JOHN X								
Person Number: 1235557892103								
*Cmd	Case Number	Cert Per	Cat	Type Case	Status	Start Date	Close	
Date								
_	1234567890123	0123	005	021	Closed	19950531		
19960501								
_	1234567890123	1234	001	042	Open	19971202		
19981201								
_	1234567890123	1234	001	099	Closed	19970101		
19971201								
_	1234567890123	1234	001	042	Closed	19960601		
19961231								
_	1234567890123	1235	001	099	Open	19971202		
19981201								
_	1234567890124	7335	004	021	Open	19980101		
19980501								
_	1234567890125	5643	003	085	Open	19980201		
	1234567890126				Pending			
SSN: _____ No more Client case								
data								
*Tran: _____ Act: _ Key:								
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---								
PF12---								
Help Main Retn Quit Back Fwr								
Message Line ...								



## Screen Line Layout:

The HLLAPI screen scrape relies on consistent data positions onscreen on the Query By SSN screen:

<u>Line</u>	<u>Start Column</u>	<u>Field Name</u>	<u>Field Format</u>	<u>Field Description</u>
3	47	#NOT-CLIENT-MSG	A29/2	Blank unless Person is not a Client, otherwise (1) "** Person is not a Client in **" (2) "** any active or closed Case **"
5	11	SSN	N9	MEDS Person identified by Social Security Number (display format 999-99-9999)
6	11	#CLIENT-NAME	A30	Client Name reformatted by MECGCNP.
6	57	PERSON-NUM	N13	Unique identifier of a MEDS Person.
8-19	8	CASE-NUM	N13	Unique identifier of a MEDS Case.
8-19	25	CERT-PERIOD-NUM	N4	Unique identifier of a MEDS Certification Period. Blank if this is a Pending application.
8-19	33	CATEGORY-CODE	N3	MEDS Category Code. Blank if this is a Pending application.
8-19	41	TYPE-CASE	N3	MEDS Type Case. Blank if this is a Pending application.
8-19	50	#STATUS	A11	Dependent on the CPTC Start & Close dates: "Open": Close date that is a later date or zero "Pending": Pending application "Closed": all others "NO CPTC": indicates that although a Cert Period exists, there is no corresponding CPTC - this indicates a system logic problem.
8-19	59	CPTC-START-DATE	N8	Start Date of MEDS CPTC (YYYYMMDD) Blank if this is a Pending application.
8-19	71	CPTC-CLOSE-DATE	N8	Close Date of MEDS CPTC (YYYYMMDD or blank)
21	55	#MORE-TEXT	A24	Indicates "...more on next screen" or "No more Client case data"

## Processing

*Initialize – reset onscreen “More text” (output field).*

*If person num in the globals is populated retrieve the person record.*

*If an SSN is input use this as the key, otherwise use the SSN from the person in the globals.*

### Retrieve Person Processing

Retrieve Person with SSN = input SSN

If no person exists with this SSN display an error.

For Person retrieved:

- Call common routine 'Get Client Name and format for display' which formats Last Name, First Name, Middle Initial and Suffix into the Formatted Client Name field.

Display SSN, Formatted Client Name, Person Number

- Perform 'Determine Cases as Client'
- Perform 'Determine Pending Cases as Probable Client'

### Determine Cases as Client

Retrieve all Cert Period(s) by Client Num, Case Num, Cert Period Num where Client Num = Person.Person Num.

For each Cert Period accepted:

- Perform 'Determine Type-Cases'

### Determine Type-Cases

Retrieve all CPTC(s) by Case Num, Cert Period Num, CPTC Num where Case Num = Cert Period.Case Num & Cert Period Num = Cert Period.Cert Period Num and CPTC Num = 1

For each CPTC accepted:

- If CPTC.Close Date = 0 or is greater than current date  
Set #CPTC Status to "Open"
- Else  
Set #CPTC Status to "Closed"
- End If
- Set a "S"electable field (not used by MAS, but may be used by MEDS\*)
- Write       Cert Period.Case Number  
              Cert Period.Cert Period Number  
              CPTC.Category Code  
              CPTC.Type Case  
              #CPTC Status  
              CPTC.CPTC Start Date  
              CPTC.CPTC Close Date

## Determine Pending Cases as a Probable Client

Retrieve all Case Members by Person Num, Case Num where Case Member.Person Num = Person.Person Num.

For each Case Num accepted:

- Perform 'Determine if Prob Client on Pending Appl'

## Determine if Prob Client on Pending Appl

Retrieve all Application(s) by Case Num, Appl Num 9C where Case Num = Case Member.Case Num  
Accept if Application.Appl-Status = 'P' (Pending)  
and Application.Prob-Client-1 or Prob-Client-2 = Person.Person Num.

For each Application accepted:

- Set a "S"electable field (not used by MAS, but may be used by MEDS\*)
- Write       Application.Case Number  
              #Appl Status ("Pending")

If a line is "S"elected, move control to the "Query by Person Num, Case Num, CPTC" function, passing the selected parameters.

*If there is further valid CPTC or Application information to be displayed set the onscreen "More text" to "... more on next screen" and allow PF8 processing.*

*When all the CPTC and Application info for all the certified cases has been displayed, set the onscreen "More text" to 'No more Client case data' as a tag (flag) for the HLLAPI utility.*

### Technical Notes:

#### FILES USED

ME-PERSON

ME-CERT-PERIOD

ME-CPTC

ME-CASE-MEMBER

ME-APPLICATION

#### FIELDS

PERSON-NUM, SSN, LAST-NAME, FIRST-NAME, MIDDLE-INIT

CASE-NUM, CERT-PERIOD-NUM, CLIENT-NUM

CASE-NUM, CERT-PERIOD-NUM, CPTC-NUM, CPTC-START-DATE, CPTC-CLOSE-DATE, CAT-TYPE-CASE

CASE-NUM, PERSON-NUM

CASE-NUM, APPL-STATUS, PROB-CLIENT-1, PROB-CLIENT-2

## Query by Person Num, Case Num, CPTC (MEIMASQ2)

The Query by Person Number, Case Number, CPTC displays all the MEDS information required by the MAS system. The MAS system will use this screen to "scrape" the MEDS information from the screen buffer using the HLLAPI utility.

### Screen Layout:

```

MASQ2                *** M.E.D. SYSTEM ***                *DATE
(D) MEIMASQ2 MAS INTERFACE QUERY BY PERSON NUM, CASE NUM, CPTC *TIME
A: D Ps: 1234567890123 Cs: 1234567890124 CP: 1234 CPTC: 0001
1235557892103103456009DOE                                JOHN
H01011940
12345678901231234001042CLOSED0601199612311996          More on next
screen...
9999 SAN FRANCISCO BLVD                                APARTMENT 99B
MARTIN LUTHER KING PLAZA                                BATON ROUGE
LA7089512345049251234
DOE                                JOANNA                                X
9999 WESTERN TERRACE                                APARTMENT 99E
MARTIN LUTHER KING PLAZA                                BATON ROUGE
LA7089412345049231234
0000000090123DOE                                JOANNA                                D558451244

01031963C0601199612311996
0000007890123DOE                                JULIA                                J602456229

02211974C0601199610011996
0000567890123DOE                                JOHN                                E608456786

06111956C0801199609151996
8651368358629DOE                                JACK                                S512854489

11111899C0801199609151996
3210987654321DOE                                JOANNE                                P625879167

02141943C0103199606051997
*Tran: _____ Act: _ Key:

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--
PF12---
Help Main Retn Quit                                Back FwrD
Message Line ...

```

```

MASQ2                *** M.E.D. SYSTEM ***                *DATE
(D) MEIMASQ2 MAS INTERFACE QUERY BY PERSON NUM, CASE NUM, CPTC *TIME
A: D Ps: 1234567890123 Cs: 1234567890124 CP: 1234 CPTC: 0001
1235557892103103456009DOE                                JOHN
H01011940
12345678901231234001042CLOSED0601199612311996          No more AU Members
9999 SAN FRANCISCO BLVD                                APARTMENT 99B
MARTIN LUTHER KING PLAZA                                BATON ROUGE
LA7089512345049251234
DOE                                JOANNA                                X
9999 WESTERN TERRACE                                APARTMENT 99E
MARTIN LUTHER KING PLAZA                                BATON ROUGE
LA7089412345049231234
3069245090123DOE                                JACOB                                361883917

03181964C0601199610011996
0296375348323DOE                                JERRY                                E692537603

11251955C0801199609151996

*Tran: _____ Act: _ Key:

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---
PF12---
      Help Main Retn Quit                                Back Fwrld
Message Line ...

```

## Screen Line Layout:

The HLLAPI screen scrape relies on consistent data positions onscreen on the Query By Person Num, Case Num, CPTC screen:

<u>Line</u>	<u>Start Column</u>	<u>Field Name</u>	<u>Field Format</u>	<u>Field Description</u>
4	2	PERSON-NUM	N13	Unique identifier of a MEDS Person.
4	15	SSN	N9	MEDS Person identified by Social Security Number (display format 999999999)
4	24	LAST-NAME	A25	MEDS (Potential) Client's Last Name.
4	49	FIRST-NAME	A20	MEDS (Potential) Client's First Name.
4	69	MIDDLE-INIT	A1	MEDS (Potential) Client's Middle Initial.
4	70	BIRTH-DATE	N8	MEDS (Potential) Client's Date of Birth.
5	2	CASE-NUM	N13	Unique identifier of a MEDS Case.
5	15	CERT-PERIOD-NUM	N4	Unique identifier of a MEDS Certification Period. Blank if this is a Pending application.
5	19	CATEGORY-CODE	N3	MEDS Category Code. Blank if this is a Pending application.
5	22	TYPE-CASE	N3	MEDS Type Case. Blank if this is a Pending application.
5	25	#STATUS	A6	Dependent on the CPTC Start & Close dates: "OPEN": Close date that is later date or zero "PEND": Pending application "CLOSED": all others.
5	31	CPTC-START-DATE	N8	Start Date of MEDS CPTC (YYYYMMDD) Blank if this is a Pending application.
5	39	CPTC-CLOSE-DATE	N8	Close Date of MEDS CPTC (YYYYMMDD or zero) Blank if this is a Pending application.
5	57	#MORE-TEXT	A22	Indicates "More on next screen..." or "No more AU Members"  ** Invalid Person Num ** indicates that an invalid MEDS Person Number has been input. ** Invalid Client Num ** indicates that invalid or incomplete MEDS Cert Period data has been input, or the Person input is not the Client for that Case/Cert Period. ** Invalid CPTC ** indicates that invalid or incomplete MEDS CPTC data has been input.
6	2	ADDR(1)	A35	MEDS Client's Address Line 1
6	37	ADDR(2)	A35	MEDS Client's Address Line 2
7	2	ADDR(3)	A35	MEDS Client's Address Line 3
7	37	CITY	A20	MEDS Client's City
7	57	STATE-CODE	A2	MEDS Client's State Code
7	59	ZIP-CODE	N5	MEDS Client's Zip Code
7	64	EX-ZIP-CODE	N5	MEDS Client's Extended Zip Code

<u>Line</u>	<u>Start Column</u>	<u>Field Name</u>	<u>Field Format</u>	<u>Field Description</u>
7	68	PHONE-NUM	N10	MEDS Client's Telephone Number
8	2	TP-LAST-NAME	A25	MEDS Client's Third Party Last Name.
8	27	TP-FIRST-NAME	A20	MEDS Client's Third Party First Name.
9	2	TP-ADDR(1)	A35	MEDS Client's Third Party Address Line 1
9	37	TP-ADDR(2)	A35	MEDS Client's Third Party Address Line 2
10	2	TP-ADDR(3)	A35	MEDS Client's Third Party Address Line 3
10	37	TP-CITY	A20	MEDS Client's Third Party City
10	57	TP-STATE-CODE	A2	MEDS Client's Third Party State Code
10	59	TP-ZIP-CODE	N5	MEDS Client's Third Party Zip Code
10	64	TP-EX-ZIP-CODE	N5	MEDS Client's Third Party Extended Zip Code
10	68	TP-PHONE-NUM	N10	MEDS Client's Third Party Telephone Number
11,13, 15,17, 19	2	PERSON-NUM	N13	MEDS AU/Case Member's MEDS Person Number.
11,13, 15,17, 19	15	LAST-NAME	A25	MEDS AU/Case Member's Last Name.
11,13, 15,17, 19	40	FIRST-NAME	A20	MEDS AU/Case Member's First Name.
11,13, 15,17, 19	60	MIDDLE-INIT	A1	MEDS AU/Case Member's Middle Initial.
11,13, 15,17, 19	61	SSN	N9	MEDS AU/Case Member's Social Security Number
12,14, 16,18, 20	56	BIRTH-DATE	N8	MEDS AU/Case Member's Date of Birth (YYYYMMDD).
12,14, 16,18, 20	64	#STATUS	A1	Dependent on the AU Member Start & Close dates: "O": Close date that is a later date or zero Blank if this is a Pending application "C": all others.
12,14, 16,18, 20	65	MEM-START-DATE	N8	Start Date of MEDS AU Member (YYYYMMDD) Blank if this is a Pending application.
12,14, 16,18, 20	73	MEM-CLOSE-DATE	N8	Close Date of MEDS AU Member (YYYYMMDD or blank)

## Processing

*Initialize – reset onscreen “More” indicator (output field).*

*Validate*

- 1) a valid MEDS Person No is input
- 2) a valid MEDS Case Number is input
- 3) a valid MEDS Certification Period Number is input
- 4) a valid MEDS CPTC Number is input

### Retrieve Person Processing

Retrieve Person with Person Num = input Person Num and display:

Person Number  
 SSN  
 Last Name  
 First Name  
 Middle Initial  
 Date Of Birth  
 Addr (1:3)  
 City  
 State Code  
 Zip Code  
 Ext Zip Code  
 Telephone Num  
 TP (3rd Party) First Name  
 TP Last Name  
 TP Addr (1:3)  
 TP City  
 TP State Code  
 TP Zip Code  
 TP Ex Zip Code  
 TP Telephone Num

- Perform 'Confirm Person as Client (or Probable Client) for Case'

If this is not a Probable Client, i.e. the client was found on a Cert Period

- Perform 'Retrieve CPTC'
- Perform 'Retrieve Case Members'

### Confirm Person as Client (or Probable Client) for Case

Retrieve the Cert Period by Client Num, Case Num, Cert Period Num where Client Num = input Person Num and Case Num = input Case Number and Cert Period Num = input Cert Period Num

If not found, retrieve the Application by Case Num, Appl Num 9c where Case Num = input Case Num. Accept record where Probable Client-1 or -2 = input Person Num and Application Status = 'P' (Pending)

*If not found, return a message indicating the error and populate “More Text” with “\* Invalid Client Num \*”*



## Retrieve CPTC

Retrieve the CPTC by Case Num, Cert Period Num, CPTC Num where Case Num = input Case Num and Cert Period Num = input Cert Period Num and CPTC Number = input CPTC Number

```
If CPTC.Close Date = 0 or is greater than current date
  Set #CPTC Status to "Open"
Else
  Set #CPTC Status to "Closed"
End If
```

```
Display:   CPTC.Category Code
           CPTC.Type Case
           #CPTC Status
           CPTC.CPTC Start Date
           CPTC.CPTC Close Date
```

## Retrieve Case Members

Retrieve Case Members by Case Num Person Num where Case Num = input Case Number

For each Case Member accepted:

- Perform 'Retrieve AU Members'

If no AU Member details were found for the Case Member:

```
Display      Case Member.Person Num
```

- Perform 'Retrieve Case Member Person Details'

## Retrieve AU Members

Retrieve AU Members by Case Num, Cert Period Num, Person Num, Start Date 9c where Case Num = input Case Number and Cert Period Num = input Cert Period Num and Person Num = Case Member.Person Num

For each AU Member accepted:

```
If AU Member.Close Date = 0 or is greater than current date
  Set #AU-Member Status to "Open"
Else
  Set #AU-Member Status to "Closed"
End If
```

```
Display      AU Member.Person Num
              AU Member.Birth Date
              #AU-Member Status
              AU Member.Start Date
              AU Member.Close Date
```

- Perform 'Retrieve AU Member Person Details'

## Retrieve AU Member Person Details

Retrieve Person where Person Num = AU Member.Person Num

Display	Person.Last Name Person.First Name Person.Middle Initial Person.SSN
---------	--

### Retrieve Case Member Person Details

Retrieve Person where Person Num = Case Member.Person Num

Display	Person.Last Name Person.First Name Person.Middle Initial Person.SSN
---------	--

*If there is additional valid AU or Case Member information to be displayed, set the onscreen "More Text" to "More on next screen..." and allow PF8 processing to display the additional AU Member info.*

*When all the AU and Case Member info for the certified case has been displayed, set the onscreen "More Text" to "No more AU Members" as a tag (flag) for the HLLAPI utility.*

#### Technical Notes:

#### FILES USED

#### FIELDS

ME-PERSON	PERSON-NUM, SSN, LAST-NAME, FIRST-NAME, MIDDLE-INIT, BIRTH-DATE, ADDR (1:3), CITY, STATE-CODE, ZIP-CODE, EXT-ZIP-CODE, PHONE-NUM, TP-FIRST-NAME, TP-LAST-NAME, TP-ADDR (1:3), TP-CITY, TP-STATE-CODE, TP-ZIP-CODE, TP-EX-ZIP-CODE, TP-PHONE-NUM
ME-CERT-PERIOD	CASE-NUM, CERT-PERIOD-NUM, CLIENT-NUM
ME-CPTC	CASE-NUM, CERT-PERIOD-NUM, CPTC-NUM, CPTC-START-DATE, CPTC-CLOSE-DATE, CAT-TYPE-CASE
ME-CASE-MEMBER	CASE-NUM, PERSON-NUM
ME-APPLICATION	CASE-NUM, APPL-STATUS, PROB-CLIENT-1, PROB-CLIENT-2
ME-AU-MEMBER	CASE-NUM, CERT-PERIOD-NUM, PERSON-NUM, START-DATE, CLOSE-DATE, BIRTH-DATE