ECLIPSE Import/Export Specifications

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TECHNICAL QUESTIONS WITH REGARD TO DDE IMPLEMENTATION AND TROUBLESHOOTING ARE CONSIDERED BILLABLE AT OUR STANDARD HOURLY RATE.

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Please direct any questions with regard to these specifications to:

MPN Software Systems, Inc.
Voice: 201-818-4335 ext. 10
Internet: ProgrammingSpecifications@mpnsoft.com

Before we discuss Registered Window Messages & DDE…

… let's discuss ODBC. *You can directly access the entire ECLIPSE database with an inexpensive ODBC driver*. 99% of all data can be read — and a small percentage of data can be written — directly through this driver. The 24 page ECLIPSE ODBC file layout document is available separately upon request.

Introduction

You can create a "seamless" or one-step data transfer process (or provide both) between your application and ECLIPSE. This allows your application to retrieve patient information as it's added to (or modified by) ECLIPSE… print S.O.A.P. notes simultaneously as bills are generated in ECLIPSE … transfer patient charges to ECLIPSE, etc.

It's possible to extend the specifications below. If they do not meet your needs, please address your requests via mail, e-mail, or fax to MPN Software Systems.

Technical Overview

* Data can be transferred *from* ECLIPSE via comma/quote delimited ASCII files.

- Data can be transferred *to* ECLIPSE via comma delimited ASCII files. Quotes are optional (and recommended for data integrity).
- After data is *exported*, ECLIPSE broadcasts a DDE notification message (**WM_DDE_INITIATE**) which can be intercepted by your application. *You do not need to implement a full DDE interface and can use a Registered Windows message as a simple alternative to send & receive notifications.* ***2009 Update:***
  - Some copies of some [newer] Windows versions seem to "hang" when a DDE message is posted. Within ECLIPSE, select either *Workstation* or *System* from the **F**ile | **U**tilities | **C**onfiguration menu. Check the list based checkbox labeled *DDE: Suppress DDE broadcast messages during export*. ECLIPSE will now send a different message (as defined below) using the same specifications. In order to intercept this message in your application:
    - ✓ Create a global variable to hold an unsigned integer.
    - ✓ Use the **RegisterWindowsMessage**() API function to register a message for the string ECLIPSE IPC as follows (this may vary in your environment: `glb_uIPCMessage = RegisterWindowMessage("ECLIPSE IPC");`
    - ✓ Intercept this message and handle it in the same manner as **WM_DDE_INITIATE**.
- ECLIPSE can accept a **WM_DDE_INITIATE** message to start *importing* services from a file (the user can also initiate this process from the ECLIPSE **F**ile | Data **I**mport submenu).
- In general, all files (import & export) are placed in the d:\MPN directory on the end-user's system, where d= drive letter. However, if the end-user has a *multi-directory* version of ECLIPSE, files are automatically placed/retrieved in/from the *current* data sub-directory of MPN. All data sub-directories end in the extension **FAC**. Thus the MPN directory may have a sub-directory named (for example) **OFFICE2.FAC**, where the full path name is **d:\MPN\OFFICE2.FAC**. Note that sub-directory names are selected by the end-user and must be less than or equal to 8 characters in length. The FAC extension is added automatically by ECLIPSE.
- When exporting data to ECLIPSE, create the file if it doesn't exist. Then, append new data to the end of the file.
- Ideally, an instance of your application & ECLIPSE should be running on the same local copy of Windows (if on a network).
- String data fields imported into ECLIPSE (e.g. comments) may have a maximum length specified. Data that exceeds the specifications may cause problems during import.

ASCII Files

In a typical comma-delimited ASCII file, data fields are separated by commas and records are separated by a carriage-return/line-feed combination:

…
11,John,Smith,151 Main St.,Orlando, FL,94616
12,Jane, Doe,17 Washington Ave.,Orlando,FL,94616
…

The same data can also be represented as follows:

…
"11","John","Smith","151 Main St.","Orlando","FL","94616"
"12","Jane","Doe","17 Washington Ave.","Orlando","FL","94616"
…

The second method is more reliable since commas may appear in the data and potentially misalign the parse. ECLIPSE imports *both* types of ASCII. ECLIPSE exports comma/quote delimited ASCII.

DDE & Registered Message Format

Refer to your Windows function reference for a discussion about sending and receiving Windows messages, DDE, and parameters used for the SendMessage function.

Both the **wm_DDE_Initiate** and registered messages require a **wParam** and **lParam**. Since ECLIPSE is not actually initiating a DDE session, the wParam value is not important. The value of lParam contains the ECLIPSE application and topic ID's.

The ECLIPSE application ID value is always $F0 hex (240 decimal). The topic ID value will be one of the following:

- To export patients: 0x01 (1 decimal).
- To export bills: 0x04 (4 decimal).
- To export appointment arrivals: 0x08 (8 decimal)
- To export completed appointments: 0x10 (16 decimal)
- To import charges: 0x20 (32 decimal).
- To import documents   0x40 (64 decimal)
- To import EHR data: 0x80 (128 decimal)

The following message (for example) would be broadcast to all applications by ECLIPSE following export of new patient data:

```
SendMessage(HWND(-1), WM_DDE_INITIATE, hWindow, MakeLong(0xF0, 0x01));
```

Or

```
SendMessage(HWND(-1), glb_uIPCMessage, hWindow, MakeLong(0xF0, 0x01));
```

Your application can intercept this message and make response decisions based on the application and topic ID's.

Exporting Appointment Arrival/Completion Information

Once configured via the System Configuration Dialog, ECLIPSE exports arrivals data to **ARRIVED.EXP** each time an appointment is marked as arrived in the ECLIPSE database. ECLIPSE always *appends* new data to the file. Completed appointments are exported to **COMPLETED.EXP** when as services are added. ECLIPSE automatically marks appointments as completed during this operation.

Exporting Patient Information

Once configured via the System Configuration Dialog, ECLIPSE exports patient data to **PATIENTS.EXP** each time a new patient is added to the ECLIPSE database. ECLIPSE always *appends* new data to the file.

Modified data can also be exported after configuring the System Configuration Dialog, ECLIPSE exports patient data to **PATIENTMOD.EXP** each time modified patient data is saved. ECLIPSE always *appends* new data to the file.

Once you read the data, it is your application's responsibility to erase the file. You can allow users to import the file via menu selection or by responding to the ECLIPSE DDE notification.

Typically, you may want to acquire all data from an existing ECLIPSE database the first time someone uses your product. The **ECLIPSE DDE Format** option on the **F**ile | **D**ata Import / Export | **E**xport menu will export all patient data in the requisite format. As of 7/15/2008, the user will be prompted to ***Export data separately for each case?***

Exporting Service Dates

Once configured via the System Configuration Dialog, ECLIPSE exports the service dates and CPT code data to **BILLS.EXP** under the following two conditions:
- a bill (or copy of a bill) is generated and…
- the user has checked the *"Print S.O.A.P Notes"* checkbox in the billing dialog .
ECLIPSE always *appends* new data to the file. Once you read the data, it is your application's responsibility to erase the file. You can allow users to import via menu selection or by responding to the ECLIPSE DDE notification. If the user is printing a "run" of bills (i.e. more than one bill at a time), the DDE notification takes place at the end of the run.

Importing Charges

ECLIPSE can import charges from **CHARGES.IMP** or **CHARGES2.IMP** upon either DDE notification or user selection from the **F**ile | Data **I**mport menu in ECLIPSE. The charges2.imp format is newer and includes more information. Once an import is initiated via either DDE or menu selection, ECLIPSE checks for charges.imp first. If this file is not found, ECLIPSE attempts to read charges2.imp automatically.

Importing Documents

ECLIPSE can import documents from **DOCUMENTS.IMP** upon either DDE notification or user selection from the **F**ile | Data **I**mport menu in ECLIPSE. You can allow users to import via menu selection or by responding to the ECLIPSE DDE notification.

Importing EHR data

ECLIPSE can import a variety of data from **EHR.IMP** including vitals, lab work, medications, problem lists, allergies, immunizations, major illnesses & surgeries, social

history, family history, occupational history, in a single file. Each record is identified by the value in field 3, which determines the type of the remaining fields to be imported. ECLIPSE always *appends* new data to the file. Once you read the data, it is your application's responsibility to erase the file. You can allow users to import via menu selection or by responding to the ECLIPSE DDE notification.

General Data Notes

1. In ECLIPSE, an 8 character *numeric only* field is used as the primary key for each patient record. This field will always be the first field of each record in a transfer file.
2. Dates are transferred as "mm/dd/yyyy". Note the use of a 4 digit year.
3. States must be abbreviated and no more than two characters in length. For example "FL" is acceptable. "F.L." is not.
4. It is up to the user to ensure that data in both applications match. For example, if ECLIPSE tries to import service "99212" for patient Jane Doe, #151 from your application, ECLIPSE expects that both the patient & service translate directly to information in the ECLIPSE database.
5. ECLIPSE can maintain multiple cases (e.g. Worker's Comp & Major Medical) under one patient ID#. If your application cannot handle cases in this manner, always default case #'s to 0 or 1 when exporting data to ECLIPSE. Note that the end user must then be made aware that he/she should confine patients to one case in order to utilize the interface.
6. Fields which contain doctor ID#'s refer to the numeric 0..9999 value which acts as a primary key for each physician in the ECLIPSE database. Since doctors may have secondary ID#'s that refer to their assigned facility, newer formats (such as charges2.imp) may also include an office ID in addition to the doctor ID. For *most* situations, this value can be left at 0. The office ID is required when this field is in use in order to differentiate between providers.
7. Fields labeled floating point accept numeric values with a decimal point (e.g. 100.23).

Notes on Testing

1. In order to test your application, obtain a demo copy of ECLIPSE dated after 4/8/1996 (check the About Dialog). Call MPN Software Systems about configuration of ECLIPSE.
2. When troubleshooting DDE problems, use a program such as Microsoft's **Spy** to display messages for your application.

ARRIVED.EXP & **COMPLETED.EXP** Formats

Record	Field	Additional Description
1	Patient ID number	Primary key to access patient
2	Current case #	Primary key (integer)
3	Date	
4	Arrival/Completed* time	
5	Doctor ID	Integer: 0..9999. ECLIPSE ID# of doctor who performed this service (or 0).
6	Office/Facility ID	Integer: 0..9999. ECLIPSE ID# of office that performed this service (or 0).

* Time completed is not currently populated.

PATIENTS.EXP & **PATIENTMOD.EXP** Format

Record	Field	Additional Description
1	Patient number	Primary key to access patient
2	Title	Dr., Mr., Mrs., Ms.
3	First name	
4	Middle initial	
5	Last name	
6	Address	
7	City	
8	State	
9	Zip code	
10	Home phone	Format: xxx-xxx-xxxx
11	Alternate phone	Format: xxx-xxx-xxxx
12	Social security #	Format: xxx-xx-xxxx
13	Gender	Format: M or F
14	Date of birth	
15	Doctor ID#	Numeric doctor ID within ECLIPSE
16	Doctor's office name	
17	Doctor's first name	
18	Doctor's last name	
19	Doctor's suffix	M.D., D.C., D.O., etc.
20	Doctor's address	
21	Doctor's city	
22	Doctor's State	
23	Doctor's zip	
24	Doctor's phone	Format: xxx-xxx-xxxx
25	Doctor's social security#	Format: xxx-xx-xxxx
26	Doctor's employer ID	
27	Attorney ID#	Numeric attorney ID in ECLIPSE
28	Attorney's firm name	
29	Attorney's first name	
30	Attorney's last name	
31	Attorney's address line 1	
32	Attorney's address line 2	
33	Attorney's phone	Format: xxx-xxx-xxxx
34	Date first consulted	Format: mm/dd/yyyy
35	First occurrence of injury	Format: mm/dd/yyyy
36	Primary ICD code	Example: 722.11
37	ICD 2	
38	ICD 3	
39	ICD 4	
40	Work related injury?	Format: Y or N
41	Auto accident?	Format: "A" = auto, "O" = other
42	Date returned to work	Format: mm/dd/yyyy
43	Disability start date	Format: mm/dd/yyyy

44	Disability end date	Format: mm/dd/yyyy
45	Partial disability start date	Format: mm/dd/yyyy
46	Partial disability end date	Format: mm/dd/yyyy
47	Insured first name	
48	Insured last name	
49	Insured address	
50	Insured city	
51	Insured State	
52	Insured zip	
53	Insured relationship to patient	Format: Self, Spouse, Child, Other
54	Insured Ins. Co. ID	Numeric Ins. Co. ID# in ECLIPSE
55	Ins. Co. name	
56	Ins. Co. address line 1	
57	Ins. Co. address line 2	
58	Ins. Co. city	
59	Ins. Co. State	
60	Ins. Co. zip code	
61	Insured group number	
62	Insured policy number	
63	Insured deductible	
64	Billing referral ID#	
65	Billing referral title	
66	Billing referral first name	
67	Billing referral last name	
68	Billing referral phone	
69	Billing referral email	
70	Billing referral address	
71	Billing referral city	
72	Billing referral state	
73	Billing referral zip	
74	Current case #	Format: integer
75	Current case description	
76	Primary ICD description	Example: congestive heart failure
77	ICD 2 description	
78	ICD 3 description	
79	ICD 4 description	
80	Current condition ID#	Condition associated with 77-79
81	Office ID#	Corresponds w/field 15 (Doctor ID)
82	Cell phone	
83	Email	
84	Nickname	
85	Ethnicity	
86	Primary language	
87	Race	

BILLS.EXP Format

Record	Field	Additional Description
1	Patient ID number	Primary key to access patient
2	Current case #	Primary key (integer)
3	First name	
4	Middle initial	
5	Last name	
6	Billed ICD 1	**Primary** ICD9-CM on bill*
7	Billed ICD 2	Secondary ICD9-CM on bill*
8	Billed ICD 3	Tertiary ICD9-CM on bill*
9	Billed ICD 4	Quaternary ICD9-CM on bill*
10	Total Charge sets	Charges for this record (CPT, etc.)
11	Date of service	
12	CPT code & modifier	
13	Office ID#	Integer: 0..9999. ECLIPSE ID# of office that performed this service (or 0).
14	Doctor ID#	Integer: 0..9999. ECLIPSE ID# of doctor who performed this service (or 0).
15	Service ICD 1	**Primary** ICD9-CM code*
16	Service ICD 2	Secondary ICD9-CM code*
17	Service ICD 3	Tertiary ICD9-CM code*
18	Service ICD 4	Quaternary ICD9-CM code*
19	Condition/Service ICD	Equiv. to CMS 1500 field 24E
20	Units	Floating point
21	Amount	Fee for this service
22	Place Of Service	
23	Type Of Service	
24	Comments	
25 thru ? many	repeat 11 thru 24	Optionally repeat 11->24 for as services as exist on the bill.
last	blank	This blank field signals ECLIPSE that the record parse has been completed.

BILLS.IMP Format*

1	Patient number	Primary key to access patient
2	Patient case#	Integer: 0..n. Identifies which case receives data when multiple cases exist for this patient. Enter a "0" if you do not assign cases. ECLIPSE will default to case 1.
3	Bill ID#	Integer. For each patient, bills are assigned consecutive ID#'s starting at 1.
4	Condition ID#	Integer. Assigned condition ID#
5	Doctor ID	Integer: 0..9999. ECLIPSE ID# of doctor who performed this service (or 0).
6	Office/Facility ID	Integer: 0..9999. ECLIPSE ID# of office that performed this service (or 0).
7	Remarks	Text. 78 characters max,
8	Bill date	Date bill was created
9	From date	First service date on bill
10	To date	Last service date on bill
11	Settled?	0 or N indicates false
12	EDI?	0 or N indicates false. Electronic?
13	Fees	Total fees for all services on bill
14	Late Charges	Total late charges
15	Total Interest	Total interest charges
16	Sales tax	
17	Patient adjustments	
18	Patient owes	
19	Patient payments	
20	Payer adjustments	
21	Payer owes	
22	Payer payments	

* This import can only be performed on a one-time basis when the bills.dat database is empty.

CHARGES.IMP Format

Record	Field	Additional Description
Record	Field	Additional Description
1	Patient number	Primary key to access patient
2	Patient case#	Integer: 0..n. Identifies which case receives data when multiple cases exist for this patient. Enter a "0" if you do not assign cases. ECLIPSE will default to case 1.
3	Service date	Date this service was performed
4	Doctor ID	Integer: 0..9999. ECLIPSE ID# of doctor who performed this service (or 0).
5	Office Code	9 character alphanumeric (user determined) primary key value which relates to a service in the ECLIPSE CPTCODES database.
6	ICD 1	**Primary** ICD9-CM diagnostic code*
7	ICD 2	Secondary ICD9-CM diagnostic code*
8	ICD 3	Tertiary ICD9-CM diagnostic code*
9	ICD 4	Quaternary ICD9-CM diagnostic code*
10	Units	**Optional** Units value: Floating point (defaults to current value in our CPT database if 0).

CHARGES2.IMP Format

Record	Field	Additional Description
1	Patient number	Primary key to access patient
2	Patient case#	Integer: 0..n. Identifies which case receives data when multiple cases exist for this patient. Enter a "0" if you do not assign cases. ECLIPSE will default to case 1.
3	Service date	Date this service was performed
4	Doctor ID	Integer: 0..9999. ECLIPSE ID# of doctor who performed this service (or 0). A value of -1 indicates: use assigned values from patient case for fields 4 & 5.
5	Office/Facility ID	Integer: 0..9999. ECLIPSE ID# of office that performed this service (or 0).
6	Procedure/CPT Code	9 character alphanumeric primary key value which corresponds to a service in the ECLIPSE CPTCODES database. This value is labeled *Office* Code on the ECLIPSE CPT dialog's **General** tab.
7	Modifiers	CPT modifiers (text) separated by spaces. ECLIPSE can handle up to 15 characters here. This translates to a max of about 5 modifiers.
8	ICD 1	**Primary** ICD9-CM diagnostic code*
9	ICD 2	Secondary ICD9-CM diagnostic code*
10	ICD 3	Tertiary ICD9-CM diagnostic code*
11	ICD 4	Quaternary ICD9-CM diagnostic code*
12	Units	**Optional** Units value: Floating point (defaults to current value in our CPT database if 0)**.
13	Amount	**Optional** $$ fee for this service. This fee is generally retrieved from the ECLIPSE database.
14	Place Of Service	**Optional** P.O.S. for this service. The POS is generally retrieved from the ECLIPSE database.
15	Type Of Service	**Optional** T.O.S. for this service. The TOS is generally retrieved from the ECLIPSE database.

| 16 | Comments | **Optional** 34 character comment field |
| 17 | Facility ID | **Optional** Integer: 0..9999. Facility ID# from ECLIPSE Facility (e.g. Hospital, Nursing Home & other treatment facilities) database.*** |

* ICD codes imported with services are subject to the following constraints:
- The end-user must have a *Plus* or *Advanced* version of *ECLIPSE*.
- ICD's are applied directly to the service and are <u>not</u> added to the [current] permanent condition.

** If the units value is ***negative***, it will be converted to its absolute value. It will then be multiplied by either the fee stored in the CPT database or the Amount (ASCII field #13 above if the imported amount > 0.0). The result (total fee) is stored in the comments field for this service. *The amount will be stored as $0*. This allows services that should not be billed to remain unbilled until the amount field is changed manually by the user.

*** Do not confuse this ID with the *provider's* Office/Facility ID.

DOCUMENTS.IMP Format

Record	Field	Additional Description
1	Patient number	
2	Patient case#	Integer: 0..n. Identifies which case receives data when multiple cases exist for this patient. Enter a "0" if you do not assign cases. ECLIPSE will default to case 1.
3	Service date	Date of attached service or "0"
4	Bill ID	Attached bill# or "0"
5	Doctor ID	Integer: 0..9999. ECLIPSE ID# of doctor who performed this service (or 0).
6	Office/Facility ID	Integer: 0..9999. ECLIPSE ID# of office that performed this service (or 0).
7	Document type (user-defined)	20 characters
8	Description	75 character free-form comment
9	Keywords	69 character free-form for searches
10	Pending Review	"1" or "Y" if review is necessary
11	Route to user	If pending, next user ID or 0*
12	Permission	See comments below**
13	Document type (internal)	See comments below***
14	Import method	See comments below****
15	Document path	Qualified path to file.*****

* Pending documents can be routed to a specific user in ECLIPSE for workflow. The user database employs numeric integer ID#'s starting at 0. Leave this value at 0 if not used.

** Possible permission values include:
- **0** Standard permission
- **1** Only the current user (logged into ECLIPSE at the workstation where this import is initiated) has permission to *edit* this document.
- **2** Only the current user (logged into ECLIPSE at the workstation where this import is initiated) has permission to *access* this document.

*** Possible document type values include:
- **0** Native image includes all image types (e.g. bmp, gif, jpg, tga, etc.)
- **1** Scanned TIF image
- **2** PDF
- **3** Microsoft WORD document (doc)
- **4** XML format
- **5** RTF format
- **6** MPG video

- **7** AVI video
- **8** SOAP note text in RTF format
- **9** Microsoft WORD document (do**x**)
- **10** Excel document
- **13** CDA Document
- **19** DICOM (Single File Standard)

**** Possible import methods include:
- **0** Copy original document. Don't touch original.
- **1** Copy original document. Delete document after import.

***** A qualified file path can include a local or network path, but cannot contain a URL (i.e. an internet location outside the local network that requires ftp to copy the file to the local machine).

Important Notes:
- The **Import Method** (field 13) *must* be accurate and reflect one of the listed values. Inaccurate types will result in the end user's inability to use the imported file. *This information cannot be manually changed by the end user.*
- The file extension specified in field 14 (document path) *must* be accurate. Inaccurate file extensions may result in the end user's inability to use the imported file. *This information cannot be manually changed by the end user.*

EHR.IMP Format

Record	Field	Additional Description
1	Patient Number	Primary key to access patient
2	Patient case #	Integer: 0..n. Identifies which case receives data when multiple cases exist for this patient. Enter a "0" if you do not assign cases. ECLIPSE will default to case 1.

3	Type	A numeric value as defined below. This field determines the fields which follow. All are defined in the separate tables that follow. Multiple types can coexist in the same file.
		
		`ALLERGY 100`
		`FAMILYHISTORY 150`
		`HOSPITALIZATION 200`
		`ILLNESS 300`
		`IMMUNIZATION 400`
		`MEDICATION 500`
		`OCCUPATIONALHISTORY 650`
		`PHYSICAL 700`
		`PROBLEMLIST 725`
		`REPORTEDTESTS 760`
		`SOCIALHISTORY 770`
		`SURGERY 775`

ALLERGY

Record	Field	Description

4	Allergy type	Numeric value:
		`Environment 0`
		`Food 1`
		`Medication 2`

5	Description	Text: 33 characters
6	Inactive	Format: Y or N
7	Reaction	Text: 53 characters
8	Adverse event date	Date reaction occurred

FAMILYHISTORY

Record	Field	Description
4	Relationship	Text: 30 characters

		Ex: Maternal Grandmother
5	History	Text: 80 characters
		Ex: kidney disease
6	Deceased	Format: Y or N
7	Cause of death	Text: 30 characters
		Ex: vehicular homicide

HOSPITALIZATION

Record	Field	Description
4	Date	Text: 30 characters
		Approximate date
5	Description	Text: 80 characters
		Reason for hospitalization
6	Hospital	Text 80 characters

ILLNESS

Record	Field	Description
4	Date (approximate)	Text: 30 characters
		Approximate date
5	Description	Text: 80 characters

IMMUNIZATION

Record	Field	Description
4	Vaccine	Text: 20 characters
5	Manufacturer	Text: 30 characters
6	Lot	Text: 20 characters
7	Type	Text: 20 characters
8	Site	Text: 20 characters
9	Reaction	Text: 20 characters
10	Administered by	Text: 35 characters
11	Date administered	Format: mm/dd/yyyy
12	Amount	Floating point
13	Units	Floating point
14	CVX	Text: 5 characters
15	MVX	Text: 5 characters

MEDICATION

Record	Field	Description
4	Medication	Text: 40 characters
		(Ex: Cozaar)
5	Dosage	Text: 30 characters
6	Frequency	Text: 30 characters
7	Strength	Text: 15 characters
8	Route	Text: 15 characters
9	Generic name	Text: 40 characters

10	Duration	Text: 14 characters
11	Quantity	Text: 10 characters
12	Refills	Text: characters
13	Active date	Format: mm/dd/yyyy

OCCUPATIONALHISTORY

Record	Field	Description
4	Start date (approximate)	Text: 30 characters Approximate date
5	End date (approximate)	Text: 30 characters Approximate date
6	Occupation	Text: 30 characters
7	Status	Text: 32 characters

PHYSICAL

Record	Field	Description
4	Date	Format: mm/dd/yyyy
5	Temperature	Floating point
6	Height (feet)	Integer
7	Height (remainder in inches)	Integer
8	Weight (pounds)	Integer
9	Weight (remainder in ounces)	Integer
10	Blood pressure (left/systolic)	Integer
11	Blood pressure (left/diastolic)	Integer
12	Blood pressure (right/systolic)	Integer
13	Blood pressure (right/diastolic)	Integer
14	Pulse (left/resting)	Integer
15	Pulse (left/active)	Integer
16	Pulse (right/resting)	Integer
17	Pulse (right/active)	Integer
18	Pulse origin	Integer. Radial = 0 Carotid = 1
19	Respiration rate	Integer

20	Smoking status	Integer
		`NEVER 0`
		`CURRENT 1`
		`FORMER 2`
		`DAILY 3`
		`OCCASIONAL 4`
		`UNKNOWNSTATUS 5`

		UNKNOWNSMOKER 6

PROBLEMLIST

Record	Field	Description
4	Onset date	Format: mm/dd/yyyy
5	ICD code	Text: 10 characters
6	Problem description	Text: 50 characters

REPORTED TESTS (Laboratory Results)

Record	Field	Description
4	Date	Text format mm/dd/yyyy
5	Description	Text: 80 characters
6	Results	Text: 80 characters
7	LOINC	Text: 10 characters
8	Abnormal flags	Text: 2 characters
9	Abnormal result	Format: Y or N
10	Reference range	Text: 64 characters
11	Lab's Order ID (HL7 ORC)	Text: 20 characters

Lab Test (HL7) notes:
- Use the 1st character in the **Abnormal Flags** HL7 string (e.g. "A") to determine whether the value of **Abnormal Result** should be Yes/No.
- ECLIPSE imports HL7 NTE comment information as follows: insert the text "Comment" into the **Description** field & place the comment itself (NTE-3) into the **Results** field.
- The **Description** field is for the test description (e.g. Glucose) and generally corresponds to OBX-3 info along with the LOINC identifier.

SOCIALHISTORY

Record	Field	Description
1	Marital Status	Single 0 Married 1 Widowed 2 Divorced 3
2	Smoking status	Integer NEVER 0 CURRENT 1 FORMER 2 DAILY 3 OCCASIONAL 4 UNKNOWNSTATUS 5 UNKNOWNSMOKER 6
3	Alcohol use	Text: 30 characters (Ex: casual drinker)
4	Caffeine use	Text: 30 characters (Ex: < 3 drinks/day)
5	Drug use	Text: 30 characters

		Ex: recreational user)
6	Lives with	Text: 30 characters (Ex: lives with spouse)
7	Exercise	Text: 30 characters (Ex: runs)

SURGERY

Record	Field	Description
4	Date	Text: 30 characters Approximate date
5	Description	Text: 80 characters
6	Results	Text: 80 characters