Billing Interface Specification

1   INTRODUCTION

1.1   Document Scope and Purpose

The purpose of this document is to provide a specification for the implementation of Foreign System Billing interface from the i-heal application utilizing Healogics integration engine capabilities. The major sections of this document will provide the trigger events and fields that are sent from i-heal application.

1.2   Communications

This section provides an overall description of the connectivity protocol and the message envelope.

Lower Layer Protocol

i-heal supports the following lower layer protocol:

Minimal Lower Layer Protocol (MLLP): <SB>dddd<EB><CR>

The following table shows the protocol details:

Symbol	Name	Hex Code	Decimal Equivalent	Router API Configuration
<SB>	Start Block	<0x0B>	11	STX = 11
dddd	Application Data	(Variable number of bytes)		
<EB>	End Block	<0x1C>	28	ETX-1 = 28
<CR>	Carriage Return	<0x0D>	13	ETX-2 = 13

Acknowledgements

An HL7 Acknowledgment is expected by i-heal upon sending each message. The i-heal Interface Engine will wait until receipt of the acknowledgment before sending the next message.

2   HL7 SEGMENTS DEFINED

2.1   MSH – Message Header Segment

This section defines the intent, source, destination, and some message syntax specifics. The table shows the entire segment, and a sample message follows the table.

SEQ	LEN	DT	OPT	ELEMENT NAME	FORMAT	NOTES*
1	1	ST	R	Field Separator	|	
2	4	ST	R	Encoding Characters	^~\&	
3	180	EI	O	Sending Application	i-heal	
4	180	EI	O	Sending Facility		
5	180	EI	O	Receiving Application		
6	180	EI	O	Receiving Facility		
7	26	TS	O	Date/Time Of Message	CCYYMMDDHHMMSS	
8	40	ST	O	Security		Not Available
9	7	CM	R	Message Type	DFT^P03	
10	20	ST	R	Message Control ID		
11	3	PT	R	Processing ID	P or T	
12	60	VID	R	Version ID	2.4	
13	15	NM	O	Sequence Number		Not Available
14	180	ST	O	Continuation Pointer		Not Available
15	2	ID	O	Accept Ack Type		Not Available
16	2	ID	O	Application Ack Type		Not Available
17	2	ID	O	Country Code		Not Available
18	10	ID	O	Character Set		Not Available
19	60	CE	O	Principle Lang Of Msg		Not Available
20	20	ID	O	Alternate Char Set Handling Scheme		Not Available

For example:

```
MSH|^~\&|i-heal|ORGANIZATION|||20070101120000||DFT^P03|001|P|2.4|
```

2.2   EVN – Event Type Segment

This segment communicates necessary trigger event information to the receiving application. The table shows the entire segment, and a sample message follows the table.

SEQ	LEN	DT	OPT	ELEMENT NAME	FORMAT	NOTES*
1	3	ID	R	Event Type Code	P03	
2	26	TS	R	Recorded Date/Time	CCYYMMDDHHMMSS	
3	26	TS	O	Date/Time Planned Event		Not Available
4	3	IS	O	Event Reason Code		Not Available
5	60	XCN	O	Operator ID		Not Available
6	26	TS	O	Event Occurred		Not Available

For example:

```
EVN|P03|20070101120000|
```

2.3   PID – Patient Identification Segment

This segment is the primary means for communicating patient identification information. This is permanent patient identifying and demographic information that is not likely to

change frequently. The table shows the entire segment, and a sample message follows the table.

SEQ	LEN	DT	OPT	ELEMENT NAME	FORMAT	NOTES*
1	4	SI	O	Set ID – PID		
2	20	CX	B	Patient ID		Used to Process CMRN
3	20	CX	R	Patient Identifier List		Used to Process MRN
4	20	CX	B	Alternate Patient ID – PID		Not Available
5	48	XPN	R	Patient Name		
6	48	XPN	O	Mother's Maiden Name		
7	26	TS	O	Date/Time of Birth	CCYYMMDD	
8	1	IS	O	Sex		
9	48	XPN	O	Patient Alias		
10	80	CE	O	Race		
11	106	XAD	O	Patient Address		
12	4	IS	B	County Code		
13	40	XTN	O	Phone Number - Home		
14	40	XTN	O	Phone Number - Bus		
15	60	CE	O	Primary Language		
16	80	CE	O	Marital Status		Not Available
17	80	CE	O	Religion		
18	20	CX	O	Patient Account Number		
19	16	ST	B	SSN Number - Patient	999999999	
20	25	DLN	O	Driver's License # - Patient		Not Available
21	20	CX	O	Mother's Identifier		Not Available
22	80	CE	O	Ethnic Group		
23	60	ST	O	Birth Place		Not Available
24	1	ID	O	Multiple Birth Indicator		Not Available
25	2	NM	O	Birth Order		Not Available
26	80	CE	O	Citizenship		Not Available
27	60	CE	O	Veterans Military Status		Not Available
28	80	CE	O	Nationality		Not Available
29	26	TS	O	Patient Death Date and Time		Not Available
30	1	ID	O	Patient Death Indicator		Not Available

For example:
```
PID|||123456||WOUND^PATIENT^X^^^||19751116|F||4|40 24TH
STREET^^PITTSBURGH^PA^15222^|US|4125555555||0||0|123456|12345789|||1|
```

2.4 FT1 – Financial Transaction Segment

The FT1 segment contains the detail data necessary to post charges, payments, adjustments, etc. to patient accounting records. The table shows the entire segment, and a sample message follows the table.

SEQ	LEN	DT	OPT	ELEMENT NAME	FORMAT	NOTES*
1	4	SI	O	Set ID - FT1		
2	12	ST	O	Transaction ID		
3	10	ST	O	Transaction Batch ID		Not Available
4	26	TS	R	Transaction Date	CCYYMMDD	
5	26	TS	O	Transaction Posting Date	CCYYMMDD	
6	8	IS	R	Transaction Type	CG	
7	80	CE	R	Transaction Code		
8	40	ST	B	Transaction Description		Not Available
9	40	ST	B	Transaction Description - Alt		Not Available
10	6	NM	O	Transaction Quantity		
11	12	CP	O	Transaction Amount - Extended		Not Available
12	12	CP	O	Transaction Amount - Unit		Not Available
13	60	CE	O	Department Code		
14	60	CE	O	Insurance Plan ID		
15	12	CP	O	Insurance Amount		Not Available
16	80	PL	O	Assigned Patient Loc		Not Available
17	1	IS	O	Fee Schedule		Not Available
18	2	IS	O	Patient Type		Not Available
19	60	CE	O	Diagnosis Code - FT1		
20	120	XCN	O	Performed By Code		
21	120	XCN	O	Ordered By Code		Not Available
22	12	CP	O	Unit Cost		
23	22	EI	O	Filler Order Number		Not Available
24	120	XCN	O	Entered By Code		Not Available
25	80	CE	O	Procedure Code		Not Available
26	80	CE	O	Procedure Code Modifier		Not Available

For example:

```
FT1|1|||20070101|20070101|CG|11000
|||1|||ONC|A357||||||
```