# **Technical Publications**

# **INFINITT Broker PBMHL7 HL7 Conformance Statement**

Revision 1.2

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# INFINITT Broker PBMHL7 HL7 Conformance Statement

Revision 1.2

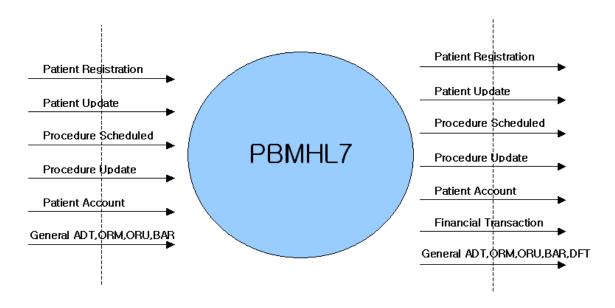
# 0. Introduction

This conformance statement (CS) specifies the compliance of PBMHL7 to HL7. It details the HL7 and the messages that are supported by this product. PBMHL7 is a PBMHL7 for INFINITT Server running on Microsoft Windows NT/2000. It uses HL7 Messages to inbound from HIS or RIS.

# 1. Implementation Model

#### 1.1 Application Data Flow Diagram

The following figure shows that PBMHL7 can receive and process ADT, ORM,ORU, and BAR messages and send ADT,ORM,ORU,BAR, and DFT specified in HL7.



#### 1.2 Fundamental Definitions of Message

PBMHL7 can support HL7 Version 2.3.x and 2.4 and inbound all HL7 messages to interface

between HIS and PACS and same as outbound.

# 1.3 Sequencing of Real-World Activities

Not Applicable

# 2. HL7 In/Outbound Specifications

### 2.1 HL7 2.3.x/2.4 Inbound Supported Profiles

PBMHL7 can inbound the following segments and Messages.

Event	All Segments in this list to be sent from HIS
ACK (Acknowledgement)	MSH,MSA,ERR
A01 (Admit/Visit Notification)	MSH,EVN,PID,PV1
A02 (Transfer a Patient)	MSH,EVN,PID,PV1
A03 (Discharge / End Visit)	MSH,EVN,PID,PV1
A04 (Register a Patient)	MSH,EVN,PID,PV1
A05 (Pre-admit a Patient)	MSH,EVN,PID,PV1
A06 (Transfer Outpatient to Inpatient)	MSH,EVN,PID,PV1
A07 (Transfer Inpatient to Outpatient)	MSH,EVN,PID,PV1
A08 (Update Patient Information)	MSH,EVN,PID,PV1
A11 (Cancel Admit)	MSH,EVN,PID,PV1
A12 (Cancel Transfer)	MSH,EVN,PID,PV1
A13 (Cancel discharge)	MSH,EVN,PID,PV1
A18 (Merge Patient Information)	MSH,EVN,PID,PV1,MRG
A38 (Cancel Pre-admit)	MSH,EVN,PID,PV1
A40 (Merge Patient identifier-list)	MSH,EVN,PID,PV1,MRG
ORM (General Order Messsage)	MSH,PID,PV1,ORC,OBR,ZDS
ORR (General Order Response)	MSH,MSA,ERR,PID,ORC,OBR
ORU (Observation Result)	MSH,PID,PV1,OBR,OBX
BAR (Billing Account)	MSH,EVN,PID,PV1,DG1,GT1,IN1

Table 2-2: HL7 2.3.x/2.4 Inbound Classes Supported Messages

# 2.1.1 Segments

#### 2.1.1.1 MSH

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	FieldSeparator	String	Yes	01			
2	EncodingCharacters	String	Yes	04			
3	SendingApplication	HD	No	0180			
4	SendingFacility	HD	No	0180			
5	ReceivingApplication	HD	No	0180			
6	ReceivingFacility	HD	No	0180			
7	DateTimeOfMessage	TS	No	026			
8	Security	String	No	040			
9	MessageType	CM_MT	Yes	016			
10	MessageControllD	String	Yes	020			
11	ProcessingID	PT	Yes	03			
12	VersionID	VID	Yes	060			
13	SequenceNumber	Long	No	015			
14	ContinuationPointer	String	No	0180			
15	AcceptAcknowledgementTy pe	String	No	02			
16	ApplicationAcknowledgeme ntType	String	No	02			
17	CountryCode	String	No	02			
18	CharacterSet	String	No	06	0Infin ite		
19	PrincipalLanguageOfMessa ge	CE	No	060			
20	AlternateCharacterSetHand lingScheme	String	No	020			

#### 2.1.1.2 EVN

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	EventTypeCode	String	No	03			
2	RecordedDateTime	TS	Yes	026			
3	DateTimePlannedEvent	TS	No	026			
4	EventReasonCode	String	No	03			
5	OperatorID	XCN	No	060	0Infin ite		
6	EventOccurred	TS	No	026			

#### 2.1.1.3 PID

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	SetID	Long	No	04			
2	PatientID	CX	No	020			
3	PatientIdentifierList	CX	Yes	020			
4	AlternatePatientID	CX	No	020			

5	PatientName	XPN	Yes	048		
6	MothersMaidenName	XPN	No	048		
7	DateTimeOfBirth	TS	No	026		
8	Sex	String	No	01		
9	PatientAlias	XPN	No	048		
10	Race	CE	No	080		
11	PatientAddress	XAD	No	0106		
12	CountyCode	String	No	04		
13	HomePhoneNumber	XTN	No	040		
14	BusinessPhoneNumber	XTN	No	040		
15	PrimaryLanguage	CE	No	060		
16	MaritalStatus	CE	No	080		
17	Religion	CE	No	080		
18	PatientAccountNumber	CX	No	020		
19	SSNNumber	String	No	016		
20	DriversLicenseNumber	DLN	No	025		
21	MothersIdentifier	CX	No	020		
22	EthnicGroup	CE	No	080		
23	BirthPlace	String	No	060		
24	MultipleBirthIndicator	String	No	02		
25	BirthOrder	Short	No	02		
26	Citizenship	CE	No	080		
27	VeteransMilitaryStatus	CE	No	060		
28	Nationality	CE	No	080		
29	PatientDeathDateAndTime	TS	No	026		
30	PatientDeathIndicator	String	No	01		

# 2.1.1.4 PV1

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	SetID	Long	No	04			
2	PatientClass	String	Yes	01			
3	AssignedPatientLocation	PL	No	080			
4	AdmissionType	String	No	02			
5	PreadmitNumber	CX	No	020			
6	PriorPatientLocation	PL	No	080			
7	AttendingDoctor	XCN	No	060			
8	ReferringDoctor	XCN	No	060			
9	ConsultingDoctor	XCN	No	060			
10	HospitalService	String	No	03			
11	TemporaryLocation	PL	No	080			
12	PreadmitTestIndicator	String	No	02			
13	ReadmissionIndicator	String	No	02			
14	AdmitSource	String	No	03			
15	AmbulatoryStatus	String	No	02			
16	VIPIndicator	String	No	02			
17	AdmittingDoctor	XCN	No	060			
18	PatientType	String	No	02			
19	VisitNumber	CX	No	020			
20	FinancialClass	FC	No	050			
21	ChargePriceIndicator	String	No	02			
22	CourtesyCode	String	No	02			
23	CreditRating	String	No	02			
24	ContractCode	String	No	02			
25	ContractEffectiveDate	DT	No	08			
26	ContractAmount	Double	No	012			

27	ContractPeriod	Double	No	03		
28	InterestCode	String	No	02		
29	TransferToBadDebtCode	String	No	01		
30	TransferToBadDebtDate	DT	No	08		
31	BadDebtAgencyCode	String	No	010		
32	BadDebtTransferAmount	Double	No	012		
33	BadDebtRecoveryAmount	Double	No	012		
34	DeleteAccountIndicator	String	No	01		
35	DeleteAccountDate	DT	No	08		
36	DischargeDisposition	String	No	03		
37	DischargedToLocation	CM_DL	No	025		
38	DietType	CE	No	080		
39	ServicingFacility	String	No	02		
40	BedStatus	String	No	01		
41	AccountStatus	String	No	02		
42	PendingLocation	PL	No	080		
43	PriorTemporaryLocation	PL	No	080		
44	AdmitDateTime	TS	No	026		
45	DischargeDateTime	TS	No	026		
46	CurrentPatientBalance	Double	No	012		
47	TotalCharges	Double	No	012		
48	TotalAdjustments	Double	No	012		
49	TotalPayments	Double	No	012		
50	AlternateVisitID	CX	No	020		
51	VisitIndicator	String	No	01		
52	OtherHealthcareProvider	XCN	No	060		

# 2.1.1.5 MRG

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	PriorPatientIdentifierList	CX	Yes	020			
2	PriorAlternatePatientID	CX	No	016			
3	PriorPatientAccountNumber	CX	No	020			
4	PriorPatientID	CX	No	016			
5	PriorVisitNumber	CX	No	020			
6	PriorAlternateVisitID	CX	No	020			
7	PriorPatientName	XPN	No	048			

#### 2.1.1.6 OBR

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	SetID	Long	No	04			
2	PlacerOrderNumber	El	No	022			
3	FillerOrderNumber	El	No	022			
4	UniversalServiceID	CE	Yes	0200			
5	Priority	String	No	02			
6	RequestedDateTime	TS	No	026			
7	ObservationDateTime	TS	No	026			
8	ObservationEndDateTime	TS	No	026			
9	CollectionVolume	CQ	No	020			
10	CollectorIdentifier	XCN	No	060			
11	SpecimenActionCode	String	No	01			
12	DangerCode	CE	No	060			
13	RelevantClinicalInfo	String	No	0300			

14	SpecimenReceivedDateTim e	TS	No	026		
15	SpecimenSource	CM_SS	No	0300		
16	OrderingProvider	XCN	No	0120		
17	OrderCallbackPhoneNumb er	XTN	No	040	02	
18	PlacerField1	String	No	060		
19	PlacerField2	String	No	060		
20	FillerField1	String	No	060		
21	FillerField2	String	No	060		
22	ResultsRptStatusChngDate Time	TS	No	026		
23	ChargeToPractice	CM_CH	No	040		
24	DiagnosticServSectID	String	No	010		
25	ResultStatus	String	No	01		
26	ParentResult	CM_PR	No	0200		
27	QuantityTiming	TQ	No	0200		
28	ResultCopiesTo	XCN	No	0150	05	
29	ParentNumber	CM_PA	No	0150		
30	TransportationMode	String	No	020		
31	ReasonForStudy	CE	No	0300		
32	PrincipalResultInterpreter	CM_RI	No	0200		
33	AssistantResultInterpreter	CM_RI	No	0200		
34	Technician	CM_RI	No	0200		
35	Transcriptionist	CM_RI	No	0200		
36	ScheduledDateTime	TS	No	026		
37	NumberOfSampleContainer s	Double	No	04		
38	TransportLogisticsOfCollect edSample	CE	No	060		
39	CollectorsComment	CE	No	0200		
40	TransportArrangementResp onsibility	CE	No	060		
41	TransportArranged	String	No	030		
42	EscortRequired	String	No	01		
43	PlannedPatientTransportCo mment	CE	No	0200		
44	ProcedureCode	CE	No	080		
45	ProcedureCodeModifier	CE	No	080		

#### 2.1.1.7 ORC

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	OrderControl	String	Yes	02			
2	PlacerOrderNumber	El	No	022			
3	FillerOrderNumber	El	No	022			
4	PlacerGroupNumber	El	No	022			
5	OrderStatus	String	No	02			
6	ResponseFlag	String	No	01			
7	QuantityTiming	TQ	No	0200			
8	Parent	CM_PA	No	0200			
9	DateTimeOfTransaction	TS	No	026			
10	EnteredBy	XCN	No	0120			
11	VerifiedBy	XCN	No	0120			
12	OrderingProvider	XCN	No	0120			
13	EnterersLocation	PL	No	080			
14	CallBackPhoneNumber	XTN	No	040	02		
15	OrderEffectiveDateTime	TS	No	026			

16	OrderControlCodeReason	CE	No	0200		
17	EnteringOrganization	CE	No	060		
18	EnteringDevice	CE	No	060		
19	ActionBy	XCN	No	0120		
20	AdvancedBeneficiaryNotice Code	CE	No	040		
21	OrderingFacilityName	XON	No	060		
22	OrderingFacilityAddress	XAD	No	0106		
23	OrderingFacilityPhoneNum ber	XTN	No	048		
24	OrderingProviderAddress	XAD	No	0106		

#### 2.1.1.8 OBX

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	SetID	Long	No	010			
2	ValueType	String	No	02			
3	ObservationIdentifier	CE	Yes	0590			
4	ObservationSubID	String	No	020			
5	ObservationValue	FT	No	0655 36			
6	Units	CE	No	060			
7	ReferencesRange	String	No	060			
8	AbnormalFlags	String	No	05	05		
9	Probability	Double	No	05			
10	NatureOfAbnormalTest	String	No	02			
11	ObservationResultStatus	String	Yes	01			
12	DateLastObsNormalValues	TS	No	026			
13	UserDefinedAccessChecks	String	No	020			
14	DateTimeOfTheObservatio n	TS	No	026			
15	ProducersID	CE	No	060			
16	ResponsibleObserver	XCN	No	080			
17	ObservationMethod	CE	No	060			

# 2.1.1.9 ZDS

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	ZDS_Field1	String	No	0128			
2	ZDS_Field2	String	No	0128			
3	ZDS_Field3	String	No	0128			
4	ZDS_Field4	String	No	0128			
5	ZDS_Field5	String	No	0128			
6	ZDS_Field6	String	No	0128			
7	ZDS_Field7	String	No	0128			
8	ZDS_Field8	String	No	0128			
9	ZDS_Field9	String	No	0128			
10	ZDS_Field10	String	No	0128			

# 2.1.1.10 MSA

	Name	DataType	Required	Length	Repeats	Default	Validation
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					Value	Table
1	AcknowledgementCode	String	Yes	02		
2	MessageControlID	String	Yes	020		
3	TextMessage	String	No	080		
4	ExpectedSequenceNumber	Long	No	015		
5	DelayedAcknowledgement Type	String	No	01		
6	FrrorCondition	CE	No	0 100		

#### 2.1.1.11 ERR

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	ErrorCodeAndLocation	CM_EC	Yes	080	1Infin ite		

#### 2.1.1.12 DG1

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	SetID	SI	Yes	04			
2	DiagnosisCodingMethod	ID	No	02			
3	DiagnosisCode	CE	No	060			
4	DiagnosisDescription	ST	No	040			
5	DiagnosisDateTime	TS	No	026			
6	DiagnosisType	IS	Yes	02			
7	MajorDiagnosticCategory	CE	No	060			
8	DiagnosticRelatedGroup	CE	No	060			
9	DRGApprovalIndicator	ID	No	01			
10	DRGGrouperReviewCode	IS	No	02			
11	OutlierType	CE	No	060			
12	OutlierDays	NM	No	03			
13	OutlierCost	CP	No	012			
14	GrouperVersionAndType	ST	No	04			
15	DiagnosisPriority	ID	No	02			
16	DiagnosingClinician	XCN	No	060	0Infin ite		
17	DiagnosisClassification	IS	No	03			
18		ID	No	01			
19	AttestationDateTime	TS	No	026			

#### 2.1.1.13 GT1

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	SetID	SI	Yes	04			
2	GuarantorNumber	CX	No	059	0Infin ite		
3	GuarantorName	XPN	Yes	048	1Infin ite		
4	GuarantorSpouseName	XPN	No	048	0Infin ite		
5	GuarantorAddress	XAD	No	0106	0Infin ite		
6	GuarantorHomePhone	XTN	No	040	0Infin		

		······		T T	ite	:
7	GuarantorBusinessPhone	XTN	No	040	0Infin	
'	Oddiantorbusinessi none	AIIN	INO	040	ite	
8	GuarantorDateTimeOfBirth	TS	No	026		
9	GuarantorSex	IS	No	01		
10	GuarantorType	IS	No	02		
11	GuarantorRelationship	CE	No	080		
12	GuarantorSSN	ST	No	011		
13	GuarantorBeginDate	DT	No	08		
14	GuarantorEndDate	DT	No	08		
15	GuarantorPriority	NM	No	02		
16	GuarantorEmployerName	XPN	No	0130	0Infin ite	
17	GuarantorEmployerAddress	XAD	No	0106	0Infin ite	
18	GuarantorEmployerPhoneN umber	XTN	No	040	0Infin ite	
19	GuarantorEmployeeIDNum ber	CX	No	020	0Infin ite	
20	GuarantorEmploymentStatu s	IS	No	02		
21	GuarantorOrganizationNam e	XON	No	0130	0Infin ite	
22	GuarantorBillingHoldFlag	ID	No	01		
23	GuarantorCreditRatingCode	CE	No	080		
24	GuarantorDeathDateAndTi me	TS	No	026		
25	GuarantorDeathFlag	ID	No	01		
26	GuarantorChargeAdjustme ntCode	CE	No	080		
27	GuarantorHouseholdAnnual Income	СР	No	010		
28	GuarantorHouseholdSize	NM	No	03		
29	GuarantorEmployerIDNumb er	CX	No	020	0Infin ite	
30	GuarantorMaritalStatusCod e	CE	No	080		
31	GuarantorHireEffectiveDate	DT	No	08		
32	EmploymentStopDate	DT	No	08		
33	LivingDependency	IS	No	02		
34	AmbulatoryStatus	IS	No	02	0Infin ite	
35	Citizenship	CE	No	080	0Infin ite	
36	PrimaryLanguage	CE	No	060		
37	LivingArrangement	IS	No	02		
38	PublicityIndicator	CE	No	080		
39	ProtectionIndicator	ID	No	01		
40	StudentIndicator	IS	No	02		
41	Religion	CE	No	080		
42	MothersMaidenName	XPN	No	048	0Infin ite	
43	Nationality	CE	No	080		
44	EthnicGroup	CE	No	080	0Infin ite	
45	ContactPersonName	XPN	No	048	0Infin ite	
46	ContactPersonsTelephone Number	XTN	No	040	0Infin ite	
47	ContactReason	CE	No	080		
48	ContactRelationship	IS	No	03		
49	ContactJobTitle	ST	No	020		

50	JobCodeClass	JCC	No	020		
51	GuarantorEmployersOrgani	XON	No	0130	0Infin	
	zationName				ite	
52	Handicap	IS	No	02		
53	JobStatus	IS	No	02		
54	GuarantorFinancialClass	FC	No	050		
55	GuarantorRace	CE	No	080	0Infin	
					ite	

#### 2.1.1.14 IN1

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	SetID	SI	Yes	04			
2	InsurancePlanID	CE	Yes	060			
3	InsuranceCompanyID	СХ	Yes	059	1Infin ite		
4	InsuranceCompanyName	XON	No	0130	0Infin ite		
5	InsuranceCompanyAddress	XAD	No	0106	0Infin ite		
6	InsuranceCoContactPerson	XPN	No	048	0Infin ite		
7	InsuranceCoPhoneNumber	XTN	No	040	0Infin ite		
8	GroupNumber	ST	No	012			
9	GroupName	XON	No	0130	0Infin ite		
10	InsuredsGroupEmpID	CX	No	012	0Infin ite		
11	InsuredsGroupEmpName	XON	No	0130	0Infin ite		
12	PlanEffectiveDate	DT	No	08			
13	PlanExpirationDate	DT	No	08			
14	AuthorizationInformation	AUI	No	055			
15	PlanType	IS	No	03			
16	NameOfInsured	XPN	No	048	0Infin ite		
17	InsuredsRelationshipToPati ent	CE	No	080			
18	InsuredsDateOfBirth	TS	No	026			
19	InsuredsAddress	XAD	No	0106	0Infin ite		
20	AssignmentOfBenefits	IS	No	02			
21	CoordinationOfBenefits	IS	No	02			
22	CoordOfBenPriority	ST	No	02			
23	NoticeOfAdmissionFlag	ID	No	01			
24	NoticeOfAdmissionDate	DT	No	08			
25		ID	No	01			
26	ReportOfEligibilityDate	DT	No	08			
27	ReleaseInformationCode	IS	No	02			
28	PreAdmitCertPAC	ST	No	015			
29	VerificationDateTime	TS	No	026			<u> </u>
30	VerificationBy	XCN	No	060	0Infin ite		
31	TypeOfAgreementCode	IS	No	02			
32	BillingStatus	IS	No	02			
33	LifetimeReserveDays	NM	No	04			
34	DelayBeforeLRDay	NM	No	04			<u> </u>
35	CompanyPlanCode	IS	No	08	<u>.</u>		<u> </u>

36	PolicyNumber	ST	No	015		
37	PolicyDeductible	CP	No	012		
38	PolicyAmountLimit	CP	No	012		
39	PolicyDaysLimit	NM	No	04		
40	RoomSemiPrivateRate	CP	No	012		
41	RoomPrivateRate	CP	No	012		
42	InsuredsEmployStatus	CE	No	060		
43	InsuredsSex	IS	No	01		
44	InsuredsEmployerAddress	XAD	No	0106	0Infin ite	
45	VerificationStatus	ST	No	02		
46	PriorInsurancePlanID	IS	No	08		
47	CoverageType	IS	No	03		
48	Handicap	IS	No	02		
49	InsuredsIDNumber	СХ	No	012	0Infin ite	

# 2.1.2 Messages

#### 2.1.2.1 ACK

Item	Description
MSH	
MSA	
[ERR]	

#### 2.1.2.2 ADTA01

Item	Description
MSH	
EVN	
PID	
[PV1]	

#### 2.1.2.3 ADTA02

Item	Description
MSH	
EVN	
PID	
[ PV1 ]	

#### 2.1.2.4 ADTA03

Item	Description
MSH	
EVN	
PID	
[ PV1 ]	

#### 2.1.2.5 ADTA04

Item	Description
MSH	
EVN	
PID	
[ PV1 ]	

#### 2.1.2.6 ADTA05

Item	Description
MSH	
EVN	
PID	
[ PV1 ]	

#### 2.1.2.7 ADTA06

Item	Description
MSH	
EVN	
PID	
[ PV1 ]	

#### 2.1.2.8 ADTA07

Item	Description
MSH	
EVN	
PID	
[ PV1 ]	

#### 2.1.2.9 ADTA08

Item	Description
MSH	
EVN	
PID	
[ PV1 ]	

#### 2.1.2.10 ADTA11

Item	Description
MSH EVN	
EVN	
PID	
[ PV1 ]	

# 2.1.2.11 ADTA12

 Item
 Description

 MSH
 EVN

 PID
 [PV1]

#### 2.1.2.12 ADTA13

Item	Description
MSH	
EVN	
PID	
[ PV1 ]	

#### 2.1.2.13 ADTA18

Item	Description
MSH	
EVN	
PID PV1	
PV1	
[MRG]	

#### 2.1.2.14 ADTA38

Item	Description
MSH	
EVN	
PID	
[ PV1 ]	

#### 2.1.2.15 ADTA40

Item	Description
MSH	
EVN	
PID	
MRG	
[ PV1 ]	

#### 2.1.2.16 ORMO01

#### 2.1.2.17 ORRO01

Item	Description
MSH	
[MSA]	
[ERR]	
[PID]	
[ ORC ] [ OBR ]	
[OBR]	

#### 2.1.2.18 ORUR01

Item	Description
MSH	
PID	
PV1	
OBR	
OBR [OBX]	

#### 2.1.2.19 BARP01

Item	Description
MSH	
[ EVN ]	
PID	
[ PV1 ]	
[ { DG1 } ] (0 - Infinite)	
[ { GT1 } ] (0 - Infinite)	
[ { IN1 } ] (0 - Infinite)	

#### 2.1.2.20 BARP05

Item	Description
MSH	
[ EVN ]	
PID	
[PV1]	
[ { DG1 } ] (0 - Infinite)	
[ { GT1 } ] (0 - Infinite)	
[ { IN1 } ] (0 - Infinite)	

#### 2.1.2.21 BARP06

Item	Description
MSH	
EVN	
[ PID ]	
[PV1]	

# 2.1.3 Separators

Separator Type	Value	Field Path	Replacement
Segment	\x0D		
Field Repeat	~	MSH.EncodingCharacters	\R\
Null Value	""		
Field Level 1		MSH.FieldSeparator	\F\
Field Level 2	٨	MSH.EncodingCharacters	\S\
Field Level 3	&	MSH.EncodingCharacters	\T\
User Defined String 1	\	MSH.EncodingCharacters	\E\

# 2.2 HL7 2.3.x/2.4 Outbound Supported Profiles

PBMHL7 can outbound the following segments and Messages.

Event	All Segments in this list to be sent from HIS
ACK (Acknowledgement)	MSH,MSA,ERR
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A02 (Transfer a Patient)	MSH,EVN,PID,PV1
A03 (Discharge / End Visit)	MSH,EVN,PID,PV1
A04 (Register a Patient)	MSH,EVN,PID,PV1
A05 (Pre-admit a Patient)	MSH,EVN,PID,PV1
A06 (Transfer Outpatient to Inpatient)	MSH,EVN,PID,PV1
A07 (Transfer Inpatient to Outpatient)	MSH,EVN,PID,PV1
A08 (Update Patient Information)	MSH,EVN,PID,PV1
A11 (Cancel Admit)	MSH,EVN,PID,PV1
A12 (Cancel Transfer)	MSH,EVN,PID,PV1
A13 (Cancel discharge)	MSH,EVN,PID,PV1
A18 (Merge Patient Information)	MSH,EVN,PID,PV1,MRG
A38 (Cancel Pre-admit)	MSH,EVN,PID,PV1
A40 (Merge Patient identifier-list)	MSH,EVN,PID,MRG,PV1
ORM (General Order Messsage)	MSH,PID,PV1,ORC,OBR,ZDS
ORR (General Order Response)	MSH,MSA,ERR,PID,ORC,OBR
ORU (Observation Result)	MSH,PID,PV1,OBR,OBX
BAR(Billing Account)	MSH,EVN,PID,PV1,DG1,GT1,IN1
DFT (Detail Financial Transaction)	MSH,EVN,PID,PV1,FT1,PR1

Table 2-2: HL7 2.3.x/2.4 Outbound Classes Supported Messages

# 2.2.1 Segments

#### 2.2.1.1 MSH

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	FieldSeparator	String	Yes	01			
2	EncodingCharacters	String	Yes	04			
3	SendingApplication	HD	No	0180			
4	SendingFacility	HD	No	0180			
5	ReceivingApplication	HD	No	0180			
6	ReceivingFacility	HD	No	0180			
7	DateTimeOfMessage	TS	No	026			
8	Security	String	No	040			
9	MessageType	CM_MT	Yes	016			
10	MessageControlID	String	Yes	020			
11	ProcessingID	PT	Yes	03			
12	VersionID	VID	Yes	060			
13	SequenceNumber	Long	No	015			
14	ContinuationPointer	String	No	0180			
15	AcceptAcknowledgementTy pe	String	No	02			
16	ApplicationAcknowledgeme ntType	String	No	02			
17	CountryCode	String	No	02			
18	CharacterSet	String	No	06	0Infin ite		
19	PrincipalLanguageOfMessa ge	CE	No	060			
20	AlternateCharacterSetHand lingScheme	String	No	020			

#### 2.2.1.2 EVN

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	EventTypeCode	String	No	03			
2	RecordedDateTime	TS	Yes	026			
3	DateTimePlannedEvent	TS	No	026			
4	EventReasonCode	String	No	03			
5	OperatorID	XCN	No	060	0Infin ite		
6	EventOccurred	TS	No	026			

#### 2.2.1.3 PID

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	SetID	Long	No	04			
2	PatientID	CX	No	020			
3	PatientIdentifierList	CX	Yes	020			
4	AlternatePatientID	CX	No	020			
5	PatientName	XPN	Yes	048			
6	MothersMaidenName	XPN	No	048			
7	DateTimeOfBirth	TS	No	026			
8	Sex	String	No	01			

9	PatientAlias	XPN	No	048	 T	
10	Race	CE	No	080		
11	PatientAddress	XAD	No	0106		
12	CountyCode	String	No	04		
13	HomePhoneNumber	XTN	No	040		
14	BusinessPhoneNumber	XTN	No	040		
15	PrimaryLanguage	CE	No	060		
16	MaritalStatus	CE	No	080		
17	Religion	CE	No	080		
18	PatientAccountNumber	CX	No	020		
19	SSNNumber	String	No	016		
20	DriversLicenseNumber	DLN	No	025		
21	MothersIdentifier	CX	No	020		
22	EthnicGroup	CE	No	080		
23	BirthPlace	String	No	060		
24	MultipleBirthIndicator	String	No	02		
25	BirthOrder	Short	No	02		
26	Citizenship	CE	No	080		
27	VeteransMilitaryStatus	CE	No	060		
28	Nationality	CE	No	080		
29	PatientDeathDateAndTime	TS	No	026		
30	PatientDeathIndicator	String	No	01		

# 2.2.1.4 PV1

	Name	DataType	Required	Length	Repeats	Default	Validation
		,,	·			Value	Table
1	SetID	Long	No	04			
2	PatientClass	String	Yes	01			
3	AssignedPatientLocation	PL	No	080			
4	AdmissionType	String	No	02			
5	PreadmitNumber	CX	No	020			
6	PriorPatientLocation	PL	No	080			
7	AttendingDoctor	XCN	No	060			
8	ReferringDoctor	XCN	No	060			
9	ConsultingDoctor	XCN	No	060			
10	HospitalService	String	No	03			
11	TemporaryLocation	PL	No	080			
12	PreadmitTestIndicator	String	No	02			
13	ReadmissionIndicator	String	No	02			
14	AdmitSource	String	No	03			
15	AmbulatoryStatus	String	No	02			
16	VIPIndicator	String	No	02			
17	AdmittingDoctor	XCN	No	060			
18	PatientType	String	No	02			
19	VisitNumber	CX	No	020			
20	FinancialClass	FC	No	050			
21	ChargePriceIndicator	String	No	02			
22	CourtesyCode	String	No	02			
23	CreditRating	String	No	02			
24	ContractCode	String	No	02			
25	ContractEffectiveDate	DT	No	08			
26	ContractAmount	Double	No	012			
27	ContractPeriod	Double	No	03			
28	InterestCode	String	No	02			
29	TransferToBadDebtCode	String	No	01			
30	TransferToBadDebtDate	DT	No	08			

24	PodPohtAgonayCodo	Ctrina	Na	0 10	 	
31	BadDebtAgencyCode	String	No	010	 	
32	BadDebtTransferAmount	Double	No	012		
33	BadDebtRecoveryAmount	Double	No	012		
34	DeleteAccountIndicator	String	No	01		
35	DeleteAccountDate	DT	No	08		
36	DischargeDisposition	String	No	03		
37	DischargedToLocation	CM_DL	No	025		
38	DietType	CE	No	080		
39	ServicingFacility	String	No	02		
40	BedStatus	String	No	01		
41	AccountStatus	String	No	02		
42	PendingLocation	PL	No	080		
43	PriorTemporaryLocation	PL	No	080		
44	AdmitDateTime	TS	No	026		
45	DischargeDateTime	TS	No	026		
46	CurrentPatientBalance	Double	No	012		
47	TotalCharges	Double	No	012		
48	TotalAdjustments	Double	No	012		
49	TotalPayments	Double	No	012		
50	AlternateVisitID	CX	No	020		
51	VisitIndicator	String	No	01		
52	OtherHealthcareProvider	XCN	No	060		

#### 2.2.1.5 MRG

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	PriorPatientIdentifierList	CX	Yes	020			
2	PriorAlternatePatientID	CX	No	016			
3	PriorPatientAccountNumber	CX	No	020			
4	PriorPatientID	CX	No	016			
5	PriorVisitNumber	CX	No	020			
6	PriorAlternateVisitID	CX	No	020			
7	PriorPatientName	XPN	No	048			

#### 2.2.1.6 OBR

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	SetID	Long	No	04			
2	PlacerOrderNumber	El	No	022			
3	FillerOrderNumber	El	No	022			
4	UniversalServiceID	CE	Yes	0200			
5	Priority	String	No	02			
6	RequestedDateTime	TS	No	026			
7	ObservationDateTime	TS	No	026			
8	ObservationEndDateTime	TS	No	026			
9	CollectionVolume	CQ	No	020			
10	CollectorIdentifier	XCN	No	060			
11	SpecimenActionCode	String	No	01			
12	DangerCode	CE	No	060			
13	RelevantClinicalInfo	String	No	0300			
14	SpecimenReceivedDateTim	TS	No	026			
	е						
15	SpecimenSource	CM_SS	No	0300			
16	OrderingProvider	XCN	No	0120			

17	OrderCallbackPhoneNumb er	XTN	No	040	02	
18	PlacerField1	String	No	060		
19	PlacerField2	String	No	060		
20	FillerField1	String	No	060		
21	FillerField2	String	No	060		
22	ResultsRptStatusChngDate Time	TS	No	026		
23	ChargeToPractice	CM_CH	No	040		
24	DiagnosticServSectID	String	No	010		
25	ResultStatus	String	No	01		
26	ParentResult	CM_PR	No	0200		
27	QuantityTiming	TQ	No	0200		
28	ResultCopiesTo	XCN	No	0150	05	
29	ParentNumber	CM_PA	No	0150		
30	TransportationMode	String	No	020		
31	ReasonForStudy	CE	No	0300		
32	PrincipalResultInterpreter	CM_RI	No	0200		
33	AssistantResultInterpreter	CM_RI	No	0200		
34	Technician	CM_RI	No	0200		
35	Transcriptionist	CM_RI	No	0200		
36	ScheduledDateTime	TS	No	026		
37	NumberOfSampleContainer s	Double	No	04		
38	TransportLogisticsOfCollect edSample	CE	No	060		
39	CollectorsComment	CE	No	0200		
40	TransportArrangementResp onsibility	CE	No	060		
41	TransportArranged	String	No	030		
42	EscortRequired	String	No	01		
43	PlannedPatientTransportCo mment	CE	No	0200		
44	ProcedureCode	CE	No	080		
45	ProcedureCodeModifier	CE	No	080		

# 2.2.1.7 ORC

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	OrderControl	String	Yes	02			
2	PlacerOrderNumber	El	No	022			
3	FillerOrderNumber	El	No	022			
4	PlacerGroupNumber	EI	No	022			
5	OrderStatus	String	No	02			
6	ResponseFlag	String	No	01			
7	QuantityTiming	TQ	No	0200			
8	Parent	CM_PA	No	0200			
9	DateTimeOfTransaction	TS	No	026			
10	EnteredBy	XCN	No	0120			
11	VerifiedBy	XCN	No	0120			
12	OrderingProvider	XCN	No	0120			
13	EnterersLocation	PL	No	080			
14	CallBackPhoneNumber	XTN	No	040	02		
15	OrderEffectiveDateTime	TS	No	026			
16	OrderControlCodeReason	CE	No	0200			
17	EnteringOrganization	CE	No	060			
18	EnteringDevice	CE	No	060			

19	ActionBy	XCN	No	0120		
20	AdvancedBeneficiaryNotice Code	CE	No	040		
21	OrderingFacilityName	XON	No	060		
22	OrderingFacilityAddress	XAD	No	0106		
23	OrderingFacilityPhoneNum ber	XTN	No	048		
24	OrderingProviderAddress	XAD	No	0106		

#### 2.2.1.8 OBX

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	SetID	Long	No	010			
2	ValueType	String	No	02			
3	ObservationIdentifier	CE	Yes	0590			
4	ObservationSubID	String	No	020			
5	ObservationValue	FT	No	0655 36			
6	Units	CE	No	060			
7	ReferencesRange	String	No	060			
8	AbnormalFlags	String	No	05	05		
9	Probability	Double	No	05			
10	NatureOfAbnormalTest	String	No	02			
11	ObservationResultStatus	String	Yes	01			
12	DateLastObsNormalValues	TS	No	026			
13	UserDefinedAccessChecks	String	No	020			
14	DateTimeOfTheObservatio n	TS	No	026			
15	ProducersID	CE	No	060			
16	ResponsibleObserver	XCN	No	080			
17	ObservationMethod	CE	No	060			

#### 2.2.1.9 ZDS

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	ZDS_Field1	String	No	0128			
2	ZDS_Field2	String	No	0128			
3	ZDS_Field3	String	No	0128			
4	ZDS_Field4	String	No	0128			
5	ZDS_Field5	String	No	0128			
6	ZDS_Field6	String	No	0128			
7	ZDS_Field7	String	No	0128			
8	ZDS_Field8	String	No	0128			
9	ZDS_Field9	String	No	0128			
10	ZDS_Field10	String	No	0128			

#### 2.2.1.10 MSA

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	AcknowledgementCode	String	Yes	02			
2	MessageControlID	String	Yes	020			

3	TextMessage	String	No	080		
4	ExpectedSequenceNumber	Long	No	015		
5	DelayedAcknowledgement Type	String	No	01		
6	ErrorCondition	CE	No	0100		

#### 2.2.1.11 ERR

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	ErrorCodeAndLocation	CM_EC	Yes	080	1Infin		
					ite		

#### 2.2.1.12 DG1

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	SetID	SI	Yes	04			
2	DiagnosisCodingMethod	ID	No	02			
3	DiagnosisCode	CE	No	060			
4	DiagnosisDescription	ST	No	040			
5	DiagnosisDateTime	TS	No	026			
6	DiagnosisType	IS	Yes	02			
7	MajorDiagnosticCategory	CE	No	060			
8	DiagnosticRelatedGroup	CE	No	060			
9	DRGApprovalIndicator	ID	No	01			
10	DRGGrouperReviewCode	IS	No	02			
11	OutlierType	CE	No	060			
12	OutlierDays	NM	No	03			
13	OutlierCost	CP	No	012			
14	GrouperVersionAndType	ST	No	04			
15	DiagnosisPriority	ID	No	02			
16	DiagnosingClinician	XCN	No	060	0Infin ite		
17	DiagnosisClassification	IS	No	03			
18	ConfidentialIndicator	ID	No	01			
19	AttestationDateTime	TS	No	026			

#### 2.2.1.13 GT1

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	SetID	SI	Yes	04			
2	GuarantorNumber	CX	No	059	0Infin ite		
3	GuarantorName	XPN	Yes	048	1Infin ite		
4	GuarantorSpouseName	XPN	No	048	0Infin ite		
5	GuarantorAddress	XAD	No	0106	0Infin ite		
6	GuarantorHomePhone	XTN	No	040	0Infin ite		
7	GuarantorBusinessPhone	XTN	No	040	0Infin ite		

······	······································			······································		 ·:·····
8	GuarantorDateTimeOfBirth	TS	No	026		 
9	GuarantorSex	IS	No	01		
10	GuarantorType	IS	No	02		
11	GuarantorRelationship	CE	No	080		
12	GuarantorSSN	ST	No	011		
13	GuarantorBeginDate	DT	No	08		
14	GuarantorEndDate	DT	No	08		
15	GuarantorPriority	NM	No	02		
16	GuarantorEmployerName	XPN	No	0130	0Infin ite	
17	GuarantorEmployerAddress	XAD	No	0106	0Infin ite	
18	GuarantorEmployerPhoneN umber	XTN	No	040	0Infin ite	
19	GuarantorEmployeeIDNum ber	CX	No	020	0Infin ite	
20	GuarantorEmploymentStatu s	IS	No	02		
21	GuarantorOrganizationNam e	XON	No	0130	0Infin ite	
22	GuarantorBillingHoldFlag	ID	No	01		
23	GuarantorCreditRatingCode	CE	No	080		
24	GuarantorDeathDateAndTi me	TS	No	026		
25	GuarantorDeathFlag	ID	No	01		
26	GuarantorChargeAdjustme	CE	No	080		
27	ntCode GuarantorHouseholdAnnual Income	СР	No	010		
28	GuarantorHouseholdSize	NM	No	03		
29	GuarantorEmployerIDNumb	CX	No	020	0Infin	
23	er				ite	
30	GuarantorMaritalStatusCod e	CE	No	080		
31	GuarantorHireEffectiveDate	DT	No	08		
32	EmploymentStopDate	DT	No	08		
33	LivingDependency	IS	No	02		
34	AmbulatoryStatus	IS	No	02	0Infin ite	
35	Citizenship	CE	No	080	0Infin ite	
36	PrimaryLanguage	CE	No	060		
37	LivingArrangement	IS	No	02		
38	PublicityIndicator	CE	No	080		
39	ProtectionIndicator	ID	No	01		
40	StudentIndicator	IS	No	02		
41	Religion	CE	No	080		
42	MothersMaidenName	XPN	No	048	0Infin ite	
43	Nationality	CE	No	080		
44	EthnicGroup	CE	No	080	0Infin ite	
45	ContactPersonName	XPN	No	048	0Infin ite	
46	ContactPersonsTelephone Number	XTN	No	040	0Infin ite	
47	ContactReason	CE	No	080		
48	ContactRelationship	IS	No	03		
49	ContactJobTitle	ST	No	020		
50	JobCodeClass	JCC	No	020		 
51	GuarantorEmployersOrgani	XON	No	0130	0Infin	 
0'	zationName	,,,,,,	140	5100	ite	

52	Handicap	IS	No	02		
53	JobStatus	IS	No	02		
54	GuarantorFinancialClass	FC	No	050		
	GuarantorRace	CE	No	080	0Infin	
					ite	

#### 2.2.1.14 IN1

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	SetID	SI	Yes	04			
2	GuarantorNumber	СХ	No	059	0Infin ite		
3	GuarantorName	XPN	Yes	048	1Infin ite		
4	GuarantorSpouseName	XPN	No	048	0Infin ite		
5	GuarantorAddress	XAD	No	0106	0Infin ite		
6	GuarantorHomePhone	XTN	No	040	0Infin ite		
7	GuarantorBusinessPhone	XTN	No	040	0Infin ite		
8	GuarantorDateTimeOfBirth	TS	No	026			
9	GuarantorSex	IS	No	01			
10	GuarantorType	IS	No	02			
11	GuarantorRelationship	CE	No	080			
12	GuarantorSSN	ST	No	011			
13	GuarantorBeginDate	DT	No	08			
14	GuarantorEndDate	DT	No	08			
15	GuarantorPriority	NM	No	02			
16		XPN	No	0130	0Infin ite		
17	GuarantorEmployerAddress	XAD	No	0106	0Infin ite		
18	GuarantorEmployerPhoneN umber	XTN	No	040	0Infin ite		
19	GuarantorEmployeeIDNum ber	СХ	No	020	0Infin ite		
20	GuarantorEmploymentStatu s	IS	No	02			
21	GuarantorOrganizationNam e	XON	No	0130	0Infin ite		
22	GuarantorBillingHoldFlag	ID	No	01			
23		CE	No	080			
24	······································	TS	No	026			
25	GuarantorDeathFlag	ID	No	01			
26		CE	No	080			
27	GuarantorHouseholdAnnual Income	СР	No	010			
28	GuarantorHouseholdSize	NM	No	03			
29	GuarantorEmployerIDNumb er	СХ	No	020	0Infin ite		
30	GuarantorMaritalStatusCod e	CE	No	080			
31	GuarantorHireEffectiveDate	DT	No	08			•
32	EmploymentStopDate	DT	No	08			
33	LivingDependency	IS	No	02			

34	AmbulatoryStatus	IS	No	02	0Infin ite	
35	Citizenship	CE	No	080	0Infin ite	
36	PrimaryLanguage	CE	No	060		
37	LivingArrangement	IS	No	02		
38	PublicityIndicator	CE	No	080		
39	ProtectionIndicator	ID	No	01		
40	StudentIndicator	IS	No	02		
41	Religion	CE	No	080		
42	MothersMaidenName	XPN	No	048	0Infin ite	
43	Nationality	CE	No	080		
44	EthnicGroup	CE	No	080	0Infin ite	
45	ContactPersonName	XPN	No	048	0Infin ite	
46	ContactPersonsTelephone Number	XTN	No	040	0Infin ite	
47	ContactReason	CE	No	080		
48	ContactRelationship	IS	No	03		
49	ContactJobTitle	ST	No	020		
50	JobCodeClass	JCC	No	020		
51	GuarantorEmployersOrgani zationName	XON	No	0130	0Infin ite	
52	Handicap	IS	No	02		
53	JobStatus	IS	No	02		
54	GuarantorFinancialClass	FC	No	050		
55	GuarantorRace	CE	No	080	0Infin ite	

#### 2.2.1.15 FT1

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	SetID	SI	No	04			
2	TransactionID	ST	No	012			
3	TransactionBatchID	ST	No	010			
4	TransactionDate	TS	Yes	026			
5	TransactionPostingDate	TS	No	026			
6	TransactionType	IS	Yes	08			
7	TransactionCode	CE	Yes	080			
8	TransactionDescription	ST	No	040			
9	TransactionAltDescription	ST	No	040			
10	TransactionQuantity	NM	No	06			
11	TransactionExtendedAmou nt	СР	No	012			
12	TransactionUnitAmount	CP	No	012			
13	DepartmentCode	CE	No	060			
14	InsurancePlanID	CE	No	060			
15	InsuranceAmount	СР	No	012			
16	AssignedPatientLocation	PL	No	080			
17	FeeSchedule	IS	No	01			
18	PatientType	IS	No	02			
19	DiagnosisCode	CE	No	060	0Infin ite		
20	PerformedByCode	XCN	No	0120	0Infin ite		
21	OrderedByCode	XCN	No	0120	0Infin		

					ite	
22	UnitCost	CP	No	012		
23	FillerOrderNumber	EI	No	022		
24	EnteredByCode	XCN	No	0120	0Infin ite	
25	ProcedureCode	CE	No	080		
26	ProcedureCodeModifier	CE	No	080	0Infin ite	

#### 2.2.1.16 PR1

	Name	DataType	Required	Length	Repeats	Default Value	Validation Table
1	SetID	SI	Yes	04			
2	ProcedureCodingMethod	IS	No	02			
3	ProcedureCode	CE	Yes	080			
4	ProcedureDescription	ST	No	040			
5	ProcedureDateTime	TS	Yes	026			
6	ProcedureFunctionalType	IS	Yes	02			
7	ProcedureMinutes	NM	No	04			
8	Anesthesiologist	XCN	No	0120	0Infin ite		
9	AnesthesiaCode	IS	No	02			
10	AnesthesiaMinutes	NM	No	04			
11	Surgeon	XCN	No	0120	0Infin ite		
12	ProcedurePractitioner	XCN	No	0230	0Infin ite		
13	ConsentCode	CE	No	060			
14	ProcedurePriority	NM	No	02			
15	AssociatedDiagnosisCode	CE	No	080			
16	ProcedureCodeModifier	CE	No	080	0Infin ite		

# 2.2.2 Messages

#### 2.2.2.1 ACK

Item	Description
MSH	
MSA	
[ERR]	

#### 2.2.2.2 ADTA01

Item	Description	
MSH		
EVN		
PID		
PID [ PV1 ]		

#### 2.2.2.3 ADTA02

Item	Description
MSH	
EVN	
PID	
[ PV1 ]	

#### 2.2.2.4 ADTA03

Item	Description
MSH	
EVN	
PID	
[ PV1 ]	

#### 2.2.2.5 ADTA04

Item	Description
MSH	
EVN	
PID	
[ PV1 ]	

#### 2.2.2.6 ADTA05

Item	Description
MSH	
EVN	
PID	
[PV1]	

#### 2.2.2.7 ADTA06

Item	Description
MSH	
EVN	
PID	
[ PV1 ]	

#### 2.2.2.8 ADTA07

Item	Description
MSH	
EVN PID	
PID	
[PV1]	

#### 2.2.2.9 ADTA08

Item	Description
MSH	
EVN	
PID	
[ PV1 ]	

#### 2.2.2.10 ADTA11

Item	Description
MSH	
EVN	
PID	
[ PV1 ]	

#### 2.2.2.11 ADTA12

Item	Description
MSH	
EVN	
PID	
[ PV1 ]	

#### 2.2.2.12 ADTA13

Item	Description
MSH	
EVN	
PID	
[ PV1 ]	

#### 2.2.2.13 ADTA18

Item	Description
MSH	
EVN	
PID	
PV1	
[ MRG ]	

#### 2.2.2.14 ADTA38

Item	Description
MSH	
EVN	
PID	
[ PV1 ]	

#### 2.2.2.15 ADTA40

Item	Description
MSH	
EVN	
PID	
MRG	
[ PV1 ]	

#### 2.2.2.16 ORMO01

#### 2.2.2.17 ORRO01

Item	Description
MSH	
[ MSA ]	
[ ERR ]	
[PID]	
[ORC]	
[OBR]	

#### 2.2.2.18 ORUR01

Item	Description
MSH	
PID PV1	
PV1	
OBR	
OBR [ OBX ]	

#### 2.2.2.19 BARP01

```
| MSH | [EVN] | PID | [ DG1 } ] (0 - Infinite) | [ {IN1 }
```

#### 2.2.2.20 BARP05

#### 2.2.2.21 BARP06

Item	Description
MSH	
EVN	
[ PID ]	
[ PV1 ]	

#### 2.2.2.22 DFTP03

Item	Description
MSH	
[ EVN ]	
PID	
[PV1]	
[ { FT1 } ] (0 - Infinite)	
[ { PR1 } ] (0 - Infinite)	

# 2.2.3 Separators

Separator Type	Value	Field Path	Replacement
Segment	\x0D		
Field Repeat	~	MSH.EncodingCharacters	\R\
Null Value	""		
Field Level 1		MSH.FieldSeparator	\F\
Field Level 2	^	MSH.EncodingCharacters	\S\
Field Level 3	&	MSH.EncodingCharacters	\T\
User Defined String 1	\	MSH.EncodingCharacters	\E\

# 3. HL7 to PBMHL7 XML Mapping Profiles

#### 3.1 ADT to XML ADT Element Mapping Table

ADT	XML ADT Element	Description
PID_PatientID	PID/PID.3/CX	Patient ID
PID_PatientName	PID/PID.5/XPN	Patient Name
PID_DateTimeOfBirth	PID/PID.7/TS	Patient Birth Date
PID_Sex	PID/PID.8/ST	Patient Sex
PID_PatientAlias	PID/PID.9/XPN	
PID_PatientAddress	PID/PID.11/XAD	Patient Address
PID_CountyCode	PID/PID.12/ST	
PID_HomePhoneNumber	PID/PID.13/XTN	Patient Home Phone Number

PID_PatientAccountNumber	PID/PID.18/CX	Account Number
PID_SSNNumber	PID/PID.19/ST	Patient SSN
PID_EthnicGroup	PID/PID.22/CE	
PV1_PatientClass	PV1/PV1.2/ST	Patient Class / Location
PV1_AssignedPatientLocation	PV1/PV1.3/PL	Patient Location / Residency
PV1_PriorPatientLocation	PV1/PV1.6/PL	
PV1_AttendingDoctor	PV1/PV1.7/XCN	
PV1_ReferringDoctor	PV1/PV1.8/XCN	Referring Doctor ID
MRG_PriorPatientIdentifierList	MRG/MRG.1/CX	Prior Patient ID
MRG_PriorPatientID	MRG/MRG.4/CX	Not use
MRG_PriorPatientName	MRG/MRG.7/XPN	

# 3.2 ORM to XML ORM Element Mapping Table

ORM	XML ORM Element	Description
PID_PatientID	PID/PID.3/CX	Patient ID
PID_PatientName	PID/PID.5/XPN	Patient Name
PID_DateTimeOfBirth	PID/PID.7/TS	Patient Birth Date
PID_Sex	PID/PID.8/ST	Patient Sex
PID_PatientAlias	PID/PID.9/XPN	
PID_PatientAddress	PID/PID.11/XAD	Patient Address
PID_CountyCode	PID/PID.12/ST	
PID_HomePhoneNumber	PID/PID.13/XTN	Patient Home Phone Number
PID_PatientAccountNumber	PID/PID.18/CX	Account Number
PID_SSNNumber	PID/PID.19/ST	Patient SSN
PID_EthnicGroup	PID/PID.22/CE	
PV1_PatientClass	PV1/PV1.2/ST	Patient Class / Location
PV1_AssignedPatientLocation	PV1/PV1.3/PL	Patient Location / Residence
PV1_PriorPatientLocation	PV1/PV1.6/PL	
PV1_AttendingDoctor	PV1/PV1.7/XCN	
PV1_ReferringDoctor	PV1/PV1.8/XCN	Referring Doctor ID
PV1_ConsultingDoctor	PV1/PV1.9/XCN	Consulting Doctor ID
ORC_OrderControl	ORC/ORC.1/ST	Order Control ID
ORC_FillerOrderNumber	ORC/ORC.3/EI	Filler Order ID
ORC_QuantityTiming	ORC/ORC.7/TQ	Order DateTime
ORC_OrderingProvider	ORC/ORC.12/XCN	Order Doctor ID
ORC_EnteringOrganization	ORC/ORC.17/CE	Order Department
OBR_UniversalServiceID	OBR/OBR.4/CE	Request Procedure Code
		- CE.1 : Value
		- CE.2 : Meaning
ODD Desired Details	ODD/ODD 0/T0	- CE.3 : Scheme
OBR_RequestedDateTime	OBR/OBR.6/TS	
OBR_SpecimenSource	OBR/OBR.15/CM_SS	Request Procedure Description
OBR_PlacerField1	OBR/OBR.18/ST	Accession Number
OBR_PlacerField2	OBR/OBR 20/ST	Request Procedure ID
OBR_FillerField1	OBR/OBR.20/ST	Scheduled Procedure Step ID (SPS ID)
OBR_FillerField2	OBR/OBR.21/ST	•
OBR_DiagnosticServSectID	OBR/OBR.24/ST	Modality Code
OBR_ReasonForStudy	OBR/OBR.31/CE	Request Procedure Reason /
•		Order Reason
OBR_QuantityTiming	OBR/OBR.27/TQ	Scheduled Procedure Step Start
		DateTime
OBR_ScheduledDateTime	OBR/OBR.36/TS	Scheduled Procedure Step Start
		DateTime / Order DateTime
ZDS_Field1	ZDS/ZDS.1/ST	Study Instance UID

# 3.3 ORR to XML ORR Element Mapping Table

ORR	XML ORR Element	Description
PID_PatientID	PID/PID.3/CX	Patient ID
PID_PatientName	PID/PID.5/XPN	Patient Name
PID_PatientAccountNumber	PID/PID.18/CX	Account Number
PV1_PatientClass	PV1/PV1.2/ST	Patient Class / Location
PV1_VisitNumber	PV1/PV1.19/CX	
PV1_VisitIndicator	PV1/PV1.51/ST	
ORC_OrderControl	ORC/ORC.1/ST	Order Control ID
ORC_PlacerOrderNumber	ORC/ORC.2/EI	Placer Order ID
ORC_FillerOrderNumber	ORC/ORC.3/EI	Filler Order ID
ORC_QuantityTiming	ORC/ORC.7/TQ	Order DateTime
ORC_DateTimeOfTransaction	ORC/ORC.9/TS	DateTime of Transaction
ORC_EnteredBy	ORC/ORC.10/XCN	Order Entry User ID
ORC_OrderingProvider	ORC/ORC.12/XCN	Order Doctor ID
ORC_CallBackPhoneNumber	ORC/ORC.14/XTN	Order CallBack Phone Number
ORC_EnteringOrganization	ORC/ORC.17/CE	Order Department
OBR_PlacerOrderNumber	OBR/OBR.2/EI	Placer Order ID
OBR_FillerOrderNumber	OBR/OBR.3/EI	Filler Order ID
OBR_UniversalServiceID	OBR/OBR.4/CE	Request Procedure Code
		- CE.1 : Value
		- CE.2 : Meaning
		- CE.3 : Scheme
OBR_DangerCode	OBR/OBR.12/CE	
OBR_RelevantClinicalInfo	OBR/OBR.13/ST	Order Comments
OBR_SpecimenSource	OBR/OBR.15/CM_SS	Request Procedure Description
OBR_OrderingProvider	OBR/OBR.16/XCN	Order Docotor ID
OBR_QuantityTiming	OBR/OBR.27/TQ	Scheduled Procedure Step Start DateTime
OBR_TransportationMode	OBR/OBR.30/ID	
OBR_ReasonForStudy	OBR/OBR.31/CE	Order Reason
OBR_ ScheduledDateTime	OBR/OBR.36/TS	Scheduled Procedure Step Start DateTime / Order DateTime

# 3.4 ORU to XML ORU Element Mapping Table

ORU	XML ORU Element	Description
PID_PatientID	PID/PID.3/CX	Patient ID
PID_PatientName	PID/PID.5/XPN	Patient Name
PID_DateTimeOfBirth	PID/PID.7/TS	Patient Birth DateTime
PID_Sex	PID/PID.8/ST	Patient Sex
PID_PatientAlias	PID/PID.9/XPN	
PID_PatientAccountNumber	PID/PID.18/CX	Account Number
PID_SSNNumber	PID/PID.19/ST	Patient SSN
PV1_PatientClass	PV1/PV1.2/ST	Patient Class / Location
PV1_PriorPatientLocation	PV1/PV1.6/PL	
PV1_AttendingDoctor	PV1/PV1.7/XCN	
PV1_ReferringDoctor	PV1/PV1.8/XCN	Referring Doctor ID
PV1_ConsultingDoctor	PV1/PV1.9/XCN	Consulting Doctor ID
OBR_UniversalServiceID	OBR/OBR.4/CE	Request Procedure Code - CE.1 : Value - CE.2 : Meaning - CE.3 : Scheme
OBR_RequestedDateTime	OBR/OBR.6/TS	
OBR_SpecimenSource	OBR/OBR.15/CM_SS	Request Procedure Description
OBR_PlacerField1	OBR/OBR.18/ST	Accession Number
OBR_PlacerField2	OBR/OBR.19/ST	Request Procedure ID
OBR_FillerField1	OBR/OBR.20/ST	Scheduled Procedure Step ID (SPS ID)
OBR_FillerField2	OBR/OBR.21/ST	,
OBR_DiagnosticServSectID	OBR/OBR.24/ST	Modality Code
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OBR_ReasonForStudy	OBR/OBR.31/CE	Request Procedure Reason / Order Reason
OBR_ScheduledDateTime	OBR/OBR.36/TS	Scheduled Procedure Step Start DateTime / Order DateTime
OBX_ObservationIdentifier	OBX/OBX.3/CE	Exam ID (Accession Number)
OBX_ObservationValue	OBX/OBX.5/FT	Report Text
OBX_ObservationResultStatus	OBX/OBX.11/ST	Report Status
OBX_DateTimeOfTheObservation	OBX/OBX.14/TS	Approve DateTime
OBX_ResponsibleObserver	OBX/OBX.16/XCN	Approver ID

# 3.5 BAR to XML BAR Element Mapping Table

BAR	XML BAR Element	Description
PID_PatientID	PID/PID.3/CX	Patient ID
PID_PatientName	PID/PID.5/XPN	Patient Name
PID_DateTimeOfBirth	PID/PID.7/TS	Patient Birth DateTime
PID_Sex	PID/PID.8/ST	Patient Sex
PID_PatientAlias	PID/PID.9/XPN	
PID_PatientAccountNumber	PID/PID.18/CX	Account Number
PID_SSNNumber	PID/PID.19/ST	Patient SSN
PV1_PatientClass	PV1/PV1.2/ST	Patient Class / Location
PV1_PriorPatientLocation	PV1/PV1.6/PL	
PV1_AttendingDoctor	PV1/PV1.7/XCN	
PV1_ReferringDoctor	PV1/PV1.8/XCN	Referring Doctor ID
PV1_ConsultingDoctor	PV1/PV1.9/XCN	Consulting Doctor ID
DG1_DiagnosisDescription	DG1/DG1.5/ST	Diagnosis Description (Diagnosis
		Code Meaning)
DG1_DiagnosisType	DG1/DG1.6/TS	Diagnosis Type
GT1_GuarantorName	GT1/GT1.3/XPN	Guarantor Name
IN1_InsurancePlanID	IN1/IN1.2/CE	Insurance Plan ID
IN1_InsuranceCompanyID	IN1/IN1.3/CX	Insurance Company ID
IN1_InsuranceCompanyName	IN1/IN1.4/XON	Insurance Company Name

# 3.6 DFT to XML DFT Element Mapping Table

DFT	XML DFT Element	Description
PID_PatientID	PID/PID.3/CX	Patient ID
PID_PatientName	PID/PID.5/XPN	Patient Name
PID_DateTimeOfBirth	PID/PID.7/TS	Patient Birth DateTime
PID_Sex	PID/PID.8/ST	Patient Sex
PID_PatientAlias	PID/PID.9/XPN	
PID_PatientAccountNumber	PID/PID.18/CX	Account Number
PID_SSNNumber	PID/PID.19/ST	Patient SSN
FT1_TransactionDate	FT1/FT1.4/TS	Study DateTime
FT1_TransactionPostingDate	FT1/FT1.5/TS	Transaction DateTime
FT1_TransactionType	FT1/FT1.6/IS	Charge Type
FT1_TransactionCode	FT1/FT1.7/CE	Request Procedure Code - CE.1 : Value
		- CE.2 : Meaning
		- CE.3 : Scheme
FT1_PerformedByCode	FT1/FT1.20/XCN	Perform Doctor ID
FT1_OrderedByCode	FT1/FT1.21/XCN	Order Doctor ID
FT1 FillerOrderNumber	FT1/FT1.23/EI	Filler Order ID
FT1 ProcedureCode	FT1/FT1.25/CE	Request Procedure Code
1 11_1 loceduleCode	1 11/1 11.25/GE	- CE.1 : Value
		- CE.2 : Meaning
		- CE.3 : Scheme
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FT1_ProcedureCodeModifier	FT1/FT1.26/CE	Request Procedure Code - CE.1 : Value
		- CE.2 : Meaning
		- CE.3 : Scheme
PR1_ProcedureCodingMethod	PR1/PR1.2/IS	
PR1_ProcedureCode	PR1/PR1.3/CE	Request Procedure Code - CE.1 : Value
		- CE.2 : Meaning
		- CE.3 : Scheme
PR1_ProcedureDateTime	PR1/PR1.5/TS	Procedure DateTime
PR1 ProcedureFunctionalType	PR1/PR1.6/IS	Procedure Functional Type
PR1 ProcedureCodeModifier	PR1/PR1.16/CE	, , , , , , , , , , , , , , , , , , , ,

# 4. Communication Profiles

#### 3.7 Supported Communication Stacks

PBMHL7 can send messages by using TCP/IP Socket communication

#### 3.8 TCP/IP Stack

TCP/IP stack inherits from Microsoft Windows Socket implementation.

3.8.1 API

Not Applicable

3.8.2 Physical Media Support

# 5. Support of Extended Character Sets

The supportable character-set is as follows.

• UTF8(Unicode Transformation Format-8) - A transformation format of ISO 10646