
Enterprise Healthcare Scheduling

Integration Profile

Developed for



Multimedia Development Corporation

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1. Introduction

1.1 *Intended Audience*

This document is intended for the following:

- Technical Team, Project Team and Project Manager of eKL (responsible for Integration)
- Participating THIS/HIS/PMS vendors in the effort
- Ministry of Health Malaysia
- Healthcare professionals involved in informatics

1.2 *Pre-requisite for the Audience*

The audience is advised to fully read and understand the content of Chapter 10, HL7 Version 2.5 in order to implement this profile.

1.3 *Copyright Permissions*

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2. Introduction

This document is simplified from overall implementation of significant contents of Chapter 10, Chapter 3, Chapter 2 and Chapter 4 and Chapter 6 of HL7 Version 2.5 standard. Focus of this document is to allow participating organizations to quickly create messages that are compatible and useful for the purpose of exchanging scheduling information between healthcare providers in Malaysia. However, the focus of this document is to allow scheduling information exchange between eKL portal and participating HIS/PMS.

2.1 *Implementation Notes*

This documentation does not dictate, suggest or infer any products available on the market for HL7 integration services and does not limit participating vendors on their selections of the products.

Majority of the dataset originate from HIS/PMS, which may use different coding system, vocabulary or terminology. Therefore, strict conformance to the content is not implemented. However, participating organizations must strictly follow the fields suggested and their properties such as field length to ensure better integration results.

References for implementation includes National Health Data Dictionary, which can be obtained from Health Informatics Standard, Ministry of Health, Malaysia.

2.2 *Terminology*

In this documentation, the eKL Portal is the default Placer Application and any of the target HIS/PMS are regarded as Filler Application. For example, a case where a user goes directly into the eKL portal to request an appointment. There will be cases where any of the HIS/PMS becomes a Placer Application should the request for schedule is initiated at the HIS/PMS level. In this case, the user are already within the realm of HIS/PMS and needed further consultation at another HIS/PMS.

2.3 Placer Application Requests and Trigger Events

The following are suggested Placer Applications Requests and their related supported Trigger Events. Future enhancements may include other trigger events as deemed necessary.

- | | |
|-------------------------------------|---|
| 1. Request New Appointment Booking | (Event S01) (SRM^S01^SRM_S01 / SRR^S01^SRR_S01) |
| 2. Request Appointment Rescheduling | (Event S02) (SRM^S02^SRM_S01 / SRR^S02^SRR_S01) |
| 3. Request Appointment Cancellation | (Event S04) (SRM^S04^SRM_S01 / SRR^S04^SRR_S01) |

2.4 Filler Application Notifications and Trigger Events

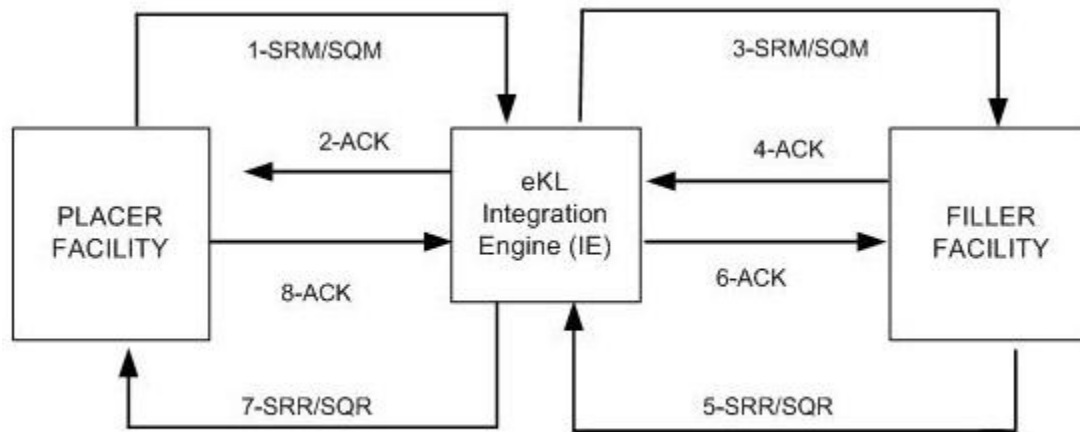
The Filler Application may optionally support the following Notifications and their related Trigger Events. This will be decided during implementation and all participating applications must readily accept the following notifications.

- | | |
|--|-------------------------------------|
| 1. Notification of New Appointment Booking | (Event S12) (SIU^S12^SIU_S12 / ACK) |
| 2. Notification of Appointment Rescheduling | (Event S13) (SIU^S13^SIU_S12 / ACK) |
| 3. Notification of Appointment Cancellation | (Event S15) (SIU^S15^SIU_S12 / ACK) |
| 4. Notification That Patient Did Not Show Up For Scheduled Appointment | (Event S26) (SIU^S26^SIU_S12 / ACK) |

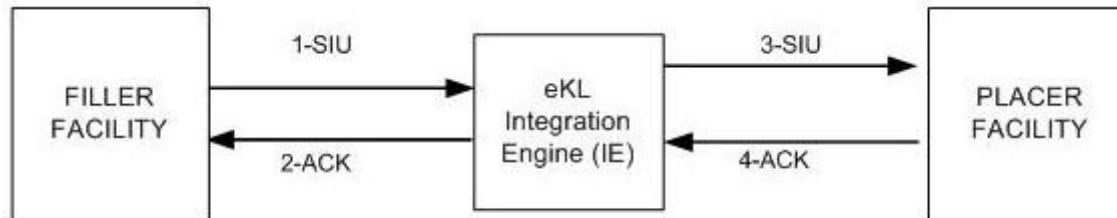
2.5 Query Transaction and Trigger Events

- | | |
|--|---|
| 1. Schedule Query Message And Response | (Event S25) (SQM^S25^SQM_S25 / SQR^S25^SQR_S25) |
|--|---|

2.6 **Process Flow Diagram**



Transaction Flow for SRM01, SRM02, SRM04 & SQM



Transaction Flow for SIU12, SIU13, SIU15, SIU26



2.1 Process Method

e-Appointment consider **delay response** method to process the HL7 messages.

2.2 Transportation

In order HL-7 messages exchanging electronically between placer and filler application, MLLP through TCP/IP connection is used as transportation with dedicated port of **2575** only for security reason.

2.3 e-Appointment Conditions

1. Filler Appointment ID and Placer Appointment ID cannot be change for all full cycles of an appointment(new, reschedule and cancelled).
2. For walk-in appointment, Placer Appointment ID must be null value and Filler Appointment ID must have Appointment ID.
3. SQM message, to query appointment from IE, Receiving Application value must be IEKKM Receiving Facility value must be SMSDAPAT.
4. Mobile phone number must follow the right format [+60XXXXXXXXXX] i.e. +60122033333.



3. Message from Placer Application to Filler Application (SRM)

Segment involved as below:

- ❖ MSH
- ❖ ARQ
 - NTE
- ❖ PID
- ❖ RGS
- ❖ AIS
 - NTE



3.1 MSH: Message Header

Sample message segment MSH:

MSH|^~\&|IEKKM|PlacerFacility|IEKKM|FillerFacility|20090810043042|1003800|SRM^S01^SRM_S01|20090810043042||2.5||AL

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM #	ELEMENT NAME	DESCRIPTIONS
1	1	ST	R			00001	Field Separator	
2	4	ST	R			00002	Encoding Characters	^~\&
3	227	HD	O		1.0	00003	Sending Application	Application Name Assigned
4	227	HD	O			00004	Sending Facility	Facility Name Assigned
5	227	HD	O		1.0	00005	Receiving Application	IEKKM
6	227	HD	O			00006	Receiving Facility	MOH
7	26	TS	R			00007	Date/Time Of Message	YYYYMMDDhhmmss
8	40	ST	O			00008	Security	Security ID will be assigned by MDeC
9	15	MSG	R			00009	Message Type	RQA with trigger event
10	20	ST	R			00010	Message Control ID	Facility Name Assigned + YYYYMMDDhhmmss
11	3	PT	R			00011	Processing ID	P
12	60	VID	R			00012	Version ID	2.5
15	2	ST	R			00015	Accept Acknowledgment Type	AL

SEQ 3 -Table 1.0 - Sending Application							
Provider	Application	Facility	Location	Provider	Application	Facility	Location
Kompakar	CISKOMPAKAR	21-16010003	KK Putrajaya	MOH/DAPAT	IEKKM	SMSDAPAT	
Heitech Padu	SPPHTP	eklportal					
BrilianceInfo	TPCBRINFO	21-10070062	KK Seri Kembangan	BrilianceInfo	TPCBRINFO	21-10090057	KK Salak
BrilianceInfo	TPCBRINFO	21-14010014	KK Jinjang	BrilianceInfo	TPCBRINFO	21-14010021	KK Tanglin
BrilianceInfo	TPCBRINFO	21-10020039	Kajang KK	BrilianceInfo	TPCBRINFO	21-14010010	KK Batu
BrilianceInfo	TPCBRINFO	Bangi KK	Bangi KK	BrilianceInfo	TPCBRINFO	21-10070043	KK Kelana Jaya
BrilianceInfo	TPCBRINFO	21-10070063	KK Shah Alam	BrilianceInfo	TPCBRINFO	21-10070206	KK Medan Maju Jaya
BrilianceInfo	TPCBRINFO	21-10040048	KK Pandamaran	BrilianceInfo	TPCBRINFO	21-10040033	KK Bukit Kuda
BrilianceInfo	TPCBRINFO	Aneka-Klang-KK	KK Aneka Klang	BrilianceInfo	TPCBRINFO	21-10020219	KK Batu 9 Cheras
BrilianceInfo	TPCBRINFO	21-10010071	KK Taman Ehsan	BrilianceInfo	TPCBRINFO	21-10010063	KK Sungai Buloh
BrilianceInfo	TPCBRINFO	21-10010059	KK Selayang Baru	BrilianceInfo	TPCBRINFO	21-10070051	KK Puchong

3.2 ARQ: Appointment Request Information

Sample message segment ARQ :

ARQ|pl_cnc20090810043027||||New Appointment|ROUTINE||||200909150900^200909191700|||^&&Dr.
Subramaniam|^0389412981|^Klinik Kesehatan Seri Kembangan|^&&Siti Mariam

SEQ	LEN	DT	OP T	RP/ #	TBL#	ITEM#	ELEMENT NAME	DESCRIPTIONS
1	75	EI	R			00860	Placer Appointment ID	
2	75	EI	C			00861	Filler Appointment ID	Must Fill in for SRM_S02 & SRM_S03
5	250	CE	O			00864	Schedule ID	
6	250	CE	O			00865	Request Event Reason	Pending – Waiting list from Heitech Padu
7	250	CE	O		2.1	00866	Appointment Reason	
8	250	CE	O		2.2	00867	Appointment Type	
11	53	DR	O	Y		00870	Requested Start Date/Time Range	YYYYMMDDhhmmss
12	5	ST	O		2.3	00871	Priority-ARQ	
15	250	XCN	R	Y		00874	Placer Contact Person	FamilyName->OwnSurname Designation(Assigning Authority) - Refer to NHDD
16	250	XTN	O	Y		00875	Placer Contact Phone Number	
18	80	PL	O			00877	Placer Contact Location	PointOfCare(Discipline) - Pending
19	250	XCN	R	Y		00878	Entered By Person	

SEQ 7 – Table 2.1 - Appointment reason codes		
Value	Description	Comment
ROUTINE	Routine appointment - default if not valued	
WALKIN	A previously unscheduled walk-in visit	
CHECKUP	A routine check-up, such as an annual physical	

SEQ 7 – Table 2.1 - Appointment reason codes		
Value	Description	Comment
FOLLOWUP	A follow up visit from a previous appointment	
EMERGENCY	Emergency appointment	
FIRSTVISIT		

SEQ 8 – Table 2.2 – Appointment Type Codes		
Value	Description	Comment
Normal	Routine schedule request type - default if not valued	
Tentative	A request for a tentative (e.g., "penciled in") appointment	
Complete	A request to add a completed appointment, used to maintain records of completed appointments that did not appear in the schedule (e.g., STAT, walk-in, etc.)	

SEQ 12 – Table 2.3 – Priority ARQ			
Value		Description	Comment
A	Stat	With highest priority	
S	ASAP	Fill after S orders	
R	Routine	Default	
P	Preop		
C	Callback		
T	Timing Critical	A request implying that it is critical to come as close as possible to the requested time, e.g., for a trough antimicrobial level.	
TS<integer>		Timing critical within <integer> seconds.	
TM<integer>		Timing critical within <integer> minutes.	
TH<integer>		Timing critical within <integer> hours	
TD<integer>		Timing critical within <integer> days	
TW<integer>		Timing critical within <integer> weeks.	
TM<integer>		Timing critical within <integer> month.	
PRN	As needed		

3.3 NTE: Notes and Comments

Sample message segment NTE:

NTE|0|L-Ancillary(Filler) Department is Source of Comment|ARQ NOTES|PI

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM #	ELEMENT NAME	DESCRIPTIONS
1	4	SI	O			00096	Set ID - NTE	
2	8	ID	O		0105	00097	Source of Comment	
3	65536	FT	O	Y		00098	Comment	
4	250	CE	O		0364	01318	Comment Type	

HL7 Table 0105 - Source of comment

Value	Description	Comment
L	Ancillary (filler) department is source of comment	
P	Orderer (placer) is source of comment	
O	Other system is source of comment	

User-defined Table 0364 - Comment type

Value	Description	Comment
PI	Patient Instructions	
AI	Ancillary Instructions	
GI	General Instructions	
1R	Primary Reason	
2R	Secondary Reason	
GR	General Reason	
RE	Remark	
DR	Duplicate/Interaction Reason	

3.4 PID: Patient Identification

Sample message segment PID:

PID||990119099999^02|990119099999^02~MYS00202212^08~F433^09~A3423232^01~L3764747^11|MYS00202212^08|&&Mohd Syariff Akmal Bin Mohd Iqbal Shah|19990919|L||0100^Melayu|45 Jalan Equine 9&Taman Equine, Bandar Putra Permai^^Seri Kembangan^Selangor^43300^^C||^^CP^^^^^^^^+60122051468~^^PH^^^^^^^^+603-89412960|^PH^^^^^^^^+603-89412960~^^FX^^^^^^^^+603-89412980||2^Married|01^Islam|||||||||MYS^Malaysia

SEQ	LEN	DT	OPT	RP/#	TBL #	ITEM#	ELEMENT NAME	DESCRIPTION
1	4	SI	O			00104	Set ID - PID	Must be sequential Number Exp. 0,1,2,3
2	20	CX	B			00105	Patient ID	990119099999^02
3	250	CX	R	Y	3.0	00106	Patient Identifier List	990119099999^02~MYS00202212^08
4	20	CX	B	Y		00107	Alternate Patient ID - PID	MYS00202212^08
5	250	XPN	R	Y		00108	Patient Name	FamilyName->OwnSurname
7	26	TS	O			00110	Date/Time of Birth	YYYYMMDD
8	1	IS	O		3.1	00111	Administrative Sex	
10	250	CE	O	Y	3.2	00113	Race	Refer NHDD
11	250	XAD	O	Y	3.3	00114	Patient Address	
13	250	XTN	O	Y	3.4	00116	Phone Number – Home	<ul style="list-style-type: none"> - ^^CP^^^^^^^^+60122051468 - ^^[telephone Equipment Type Code] ^^^^^^^^[Unformatted Phone] Number - Must contain +6
14	250	XTN	O	Y		00117	Phone Number - Business	
16	250	CE	O		3.4	00119	Marital Status	Refer NHDD
28	250	CE	B			00739	Nationality	Refer PSDD

For implementation, please refer to National Health Data Dictionary (NHDD/PD/2006 Version 2.0) or latest version.

SEQ 3 – Table 3.0 - Patient Identifier List			
Value	Description	Value	Description
01	Old IC	07	Work Permit
02	New IC (Eliminate dash)	08	Passport
03	Millitary Card Number	09	Birth Certificate
04	Police Card Number	10	Pension Card
05	Mother's IC	11	Driving License
06	Father's IC	20	MRN

SEQ 8 – Table 3.1 – Administrative Sex			
Description	Value	Description	Value
Lelaki	L	Indeterminate	R
Perempuan	P	Unknown	U

SEQ 10 – Table 3.2 - Race			
Description	Value	Description	Value
Malay	0100	Bumipuera Sarawak	1000
Chinese	0200	Melayu Sarawak	1001
Indian	0300	Melanau	1002
Bumiputera sabah	0800	Kedayan	1003
Bajau	0801	Iban	1004
Dusun	0802	Bidayuh	1005
Kadazan	0803	Bumiputera Sarawak Lain	1099
Murut	0804	Orang Asli Semenanjung	1200
Bumiputera Sabah Lain	0899	Others	1301
		No Information	9999

SEQ 11 – Table 3.3 – Patient Address	
1. Home Address	H
2. Office Address	O
3. Mailing Address	M
4. Permanent Address	P

SEQ 13 – Table 3.4 – telephone Equipment Type Code	
Type	Value
1. Cellular Phone	CP
2. Fax	FX
3. Phone	PH

SEQ 16 – Table 3.5 – Marital Status	
Description	Value
No Information	0
Single	1
Married	2
Widowed	3
Divorced	4
Others	9

SEQ 28 – table 3.6 - Nationality			
Value	Nationality	Value	Nationality
ABW	Aruba	LBR	Liberia
AFG	Afghanistan	LBY	Libyan Arab Jamahiriya,
AGO	Angola	LCA	Saint Lucia
AIA	Anguilla	LIE	Liechtenstein
ALB	Albania	LKA	Sri Lanka
AND	Andorra	LSO	Lesotho
ANT	Netherlands Antilles	LTU	Lithuania
ARE	United Arab Emirates	LUX	Luxembourg
ARG	Argentina	LVA	Latvia
ARM	Armenia	MAC	Macau
ASM	American Samoa	MAR	Morocco
ATA	Antartica	MCO	Monaco
ATF	French Southern Territories	MDA	Moldova, Republic Of
ATG	Antigua And Barbuda	MDG	Madagascar
AUS	Australia	MDV	Maldives
AUT	Austria	MEX	Mexico
AIE	Azerbaijan	MHL	Marshall Islands
BDI	Burundi	MKD	Macedonia, The Former Yugoslav Republic Of
BEL	Belgium	MLI	Mali
BEN	Benin	MLT	Malta
BFA	Burkina Faso	MMR	Myanmar
BGD	Bangladesh	MNG	Mongolia
BGR	Bulgaria	MNP	Northern Mariana Islands
BHR	Bahrain	MOZ	Mozambique
BHS	Bahamas	MRT	Mauritania
BIH	Bosnia And Herzegovina	MSR	Montserrat
BLR	Belarus	MTQ	Martinique
BLZ	Belize	MUS	Mauritius
BMU	Bermuda	MWI	Malawi

BOL	Bolivia	MYS	Malaysia
BRA	Brazil	MYT	Mayotte
BRB	Barbados	NAM	Namibia
BRN	Brunei Darussalam	NCL	New Caledonia
BTN	Bhutan	NER	Niger
BVT	Bouvet Island	NFK	Norfolk Island
BWA	Botswana	NGA	Nigeria
DAF	Central African Republic	NIC	Nicaragua
CAN	Canada	NIU	Niue
CCK	Cocos (Keeling) Islands	NLD	Netherlands
CHE	Switzerland	NOR	Norway
CHL	Chile	NPL	Nepal
CHN	China	NRU	Nauru
CJV	Cote Divoire	NZL	New Zealand
GMR	Cameroon	OMN	Oman
COD	Congo, The Democratic Rublic Of The	PAK	Pakistan
COG	Congo (Zaire)	PAN	Panama
COK	Cook Island	PCN	Pitcairn
COL	Colombia	PER	Peru
COM	Comoros	PHL	Philippines
CPV	Cape Verde	PLS	Palestinian Territory
CRI	Costa Rica	PLW	Palau
CUB	Cuba	PNG	Papua New Guinea
CXR	Christmas Island	POL	Poland
CYM	Cayman Islands	PRI	Puerto Rico
CYP	Cyprus	PRK	Korea, Democratic Peoples Republic Of
CZE	Czech Republic	PRT	Portugal
DEU	Germany	PRY	Paraguay
DJI	Djibouti	PYF	French Polynesia
DMA	Dominia	QAT	Qatar
DNK	Denmark	REU	Reunion
DOM	Dominican Republic	ROM	Romania
DZA	Algeria	RUS	Russian Federation
ECU	Ecuador	RWA	Rwanda

EGY	Egypt	SAU	Saudi Arabia
ERI	Eritrea	SON	Sudan
ESH	Western Sahara	SEN	Senegal
ESP	Spain	SGP	Singapore
EST	Estonia	SGS	South Georgia And The South Sandwich Islands
ETH	Ethiopia	SHN	Saint Helena
FIN	Finland	SJM	Svalbard And Jan Mayen
FJI	Fiji	SLB	Solomon Islands
FLK	Falkland Islands (Malvinas)	SLE	Sierra Leone
FRA	France	SLV	El Salvador
FRO	Faroe Islands	SMR	San Marino
FSM	Micronesia, Federated States Of	SOM	Somalia
GAB	Gabon	SPM	Saint Pierre And Miquelon
GBR	United Kingdom	STP	Sao Tome And Principe
GEO	Georgia	SUR	Suriname
GHA	Ghana	SVK	Slovakia
GJB	Gibraltar	SVN	Slovenia
GIN	Guinea	SWE	Sweden
GLP	Guadeloupe	SWZ	Swaziland
GMB	Gambia	SYC	Seychelles
GNB	Guinea-Bissau	SYR	Syrian Arab Republic
GNQ	Equatorial Guinea	TCA	Turks And Caicos Islands
GRC	Greece	TCD	Chad
GRD	Grenada	TGO	Togo
GRL	Greenland	THA	Thailand
GTM	Guatemala	TJK	Tajikistan
GUF	French Guiana	TKL	Tokelau
GUM	Guam	TKM	Turkmenistan
GUY	Guyana	TMP	East Timor
HKG	Hong Kong	TON	Tonga
HMO	Heard Island And McDonald Islands	TTO	Trinidad And Tobago
HND	Honduras	TUN	Tunisia
HRV	Croatia	TUR	Turkey
HTI	Haiti	TUV	Tuvalu

HUN	Hungary	TWN	Taiwan, Province Of China
ION	Indonesia	TZA	Tanzania, United Republic Of
IND	India	UGA	Uganda
IOT	British Indian Ocean Territory	UKR	Ukraine
IRL	Ireland	UMI	United States Minor Outlying Islands
IRN	Iran, Islamic Republic Of	URY	Uruguay
IRQ	Iraq	USA	United States
ISL	Iceland	UZB	Uzbekistan
ISR	Israel	VAT	Holy See (Vatican City State)
ITA	Italy	VCT	Saint Vincent And The Grenadines
JAM	Jamaica	VEN	Venezuela
JOR	Jordan	VGB	Virgin Islands, British
JPN	Japan	VIR	Virgin Islands, U.S
KAZ	Kazakstan	VNM	Vietnam
KEN	Kenya	VUT	Vanuatu
KGZ	Kyrgyzstan	WLF	Wallis And Futuna
KHM	Cambodia	WSM	Samoa
KIR	Kiribati	YEM	Yemen
KNA	Saint Kitts And Nevis	YUG	Yugoslavia
KOR	Korea, Republic Of	ZAF	South Africa
KWT	Kuwait	ZMB	Zambia
LAO	Lao Peoples Democratic Republic	ZWE	Zimbabwe
LBN	Lebanon		

3.5 RGS: Resource Group Segment

Sample message segment RGS :
RGS|0|A

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTIONS
1	4	SI	R			01203	Set ID - RGS	
2	3	ID	C		0206	00763	Segment Action Code	
3	250	CE	O			01204	Resource Group ID	

HL7 Table 0206 - Segment action

Value	Description	Comment
A	Add/Insert	
U	Update	
D	Delete	

3.6 AIS: Appointment Information – Service Resource

Sample message segment AIS:

AIS|0|A|DRU^Breast Endocrine and Metabolic Surgery

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTIONS
1	4	SI	R			00890	Set ID - AIS	
2	3	ID	C		0206	00763	Segment Action Code	
3	250	CE	R			00238	Universal Service Identifier	

Service type	Service Name Service	Value	Service type	Service Name Service	Value
Consultation	Breast Endocrine and Metabolic Surgery	DRU	Consultation	Orthopaedic	ORTHO
Consultation	Cardiothoracic Surgery	CTS	Consultation	Otorhinolaryngology	ENT
Consultation	Dermatology	DER	Consultation	Paediatric	PAED
Consultation	Forensic / Mortuary	FORM	Consultation	Paediatric Medicine	PAED
Consultation	General Surgery	SUR	Consultation	Paediatric Surgery	PAEDS
Consultation	Geriatric	GER	Consultation	Paliatif Medicine	PAL
Consultation	Gynaecology	GYN	Consultation	Pathology	PAT
Consultation	Haematology	HAE	Consultation	Plastic Surgery	PLA
Consultation	Hand and Micro Surgery	HMS	Consultation	Psychiatry	PHI
Consultation	Hepatobiliary Surgery	HEPS	Consultation	Radiology	RAD
Consultation	Hepatobiliary	HEP	Consultation	Rehabilitatif Medicine	REHAB
Consultation	Infectious Disease	INF	Consultation	Respiratory Medicine	RES
Consultation	Nephrology	NEP	Consultation	Rheumatology	RHU
Consultation	Neurology	NEU	Consultation	Urology	URO
Consultation	Neurosurgery	NEUS	Consultation	Vascular Surgery	VASS
Consultation	Nuclear Medicine	NUCM	Consultation	Other / Multidiscipline	OTHER
Consultation	Obstetric	O&G	Consultation	Ophthalmology	OPH
Consultation	Ophthalmology	OPH	Consultation	General Medicine	GEN

3.7 NTE: Notes and Comments

Sample message segment NTE:

NTE|0|L-Ancillary(Filler) Department is Source of Comment|ARQ NOTES|PI

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM #	ELEMENT NAME	DESCRIPTIONS
1	4	SI	O			00096	Set ID - NTE	
2	8	ID	O		0105	00097	Source of Comment	
3	65536	FT	O	Y		00098	Comment	
4	250	CE	O		0364	01318	Comment Type	

4. SRR: Scheduled Request Response from Filler Application to Placer Application (Successful)

Segment involved as below:

- ❖ MSH
- ❖ SCH
 - TQ1
 - NTE
- ❖ PID
- ❖ RGS
- ❖ AIS
 - NTE
- ❖ AIL – Optional
 - NTE
- ❖ AIP – Optional
 - NTE



4.1 MSH: Message Header

Sample message segment MSH:

MSH|^~\&|IEKKM|FillerFacility|IEKKM|PlacerFacility|20090810043148|1003800|SRR^S01^SRR_S01|20090810043148|P|2.5||AL

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM #	ELEMENT NAME	Description
1	1	ST	R			00001	Field Separator	
2	4	ST	R			00002	Encoding Characters	^~\&
3	227	HD	O			00003	Sending Application	IEKKM
4	227	HD	O			00004	Sending Facility	Refer <i>KOD Facility MOH</i>
5	227	HD	O		1.0	00005	Receiving Application	IEKKM
6	227	HD	O			00006	Receiving Facility	Refer <i>KOD Facility MOH</i>
7	26	TS	R		1.0	00007	Date/Time Of Message	DateTime (YYYYMMDDhhmmss)
8	40	ST	O			00008	Security	Security ID will be assigned by MDeC
9	15	MSG	R			00009	Message Type	SRR with Trigger Events
10	20	ST	R			00010	Message Control ID	DateTime(YYYYMMDDhhmmss)
11	3	PT	R			00011	Processing ID	P
12	60	VID	R			00012	Version ID	2.5
15	2	ST	R			00015	Accept Acknowledgment Type	AL

4.2 SCH: Schedule Activity Information

Sample message segment SCH:

SCH|pl_cnc20090810043027|fl_cnc20090810042747||20090810042747|New Appointment|ROUTINE||||^&&Dr.
Subramaniam|^^^^^^^^^^^^^0389412981||^Klinik Kesehatan Seri Kembangan|^&&Dr. Aminah Saad||||^&&Filler Front
Counter||||BOOKED

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTION
1	75	EI	C			00860	Placer Appointment ID	
2	75	EI	C			00861	Filler Appointment ID	
5	250	CE	O			00864	Schedule ID	
6	250	CE	R			00883	Event Reason	
7	250	CE	O		2.1	00866	Appointment Reason	
8	250	CE	O		2.2	00867	Appointment Type	
9	20	NM	B			00868	Appointment Duration	
10	250	CE	B			00869	Appointment Duration Units	
11	200	TQ	B	Y		00884	Appointment Timing Quantity	
12	250	XCN	O	Y		00874	Placer Contact Person	
13	250	XTN	O			00875	Placer Contact Phone Number	
15	80	PL	O			00877	Placer Contact Location	
16	250	XCN	R	Y		00885	Filler Contact Person	
20	250	XCN	R	Y		00878	Entered by Person	
25	250	CE	O		0278	00889	Filler Status Code	
26	22	EI	C	Y		00216	Placer Order Number	
27	22	EI	C	Y		00217	Filler Order Number	

User-defined Table 0278 - Filler status codes

Value	Description	Comment
Pending	Appointment has not yet been confirmed	
Waitlist	Appointment has been placed on a waiting list for a particular slot, or set of slots	
Booked	The indicated appointment is booked	
Started	The indicated appointment has begun and is currently in progress	
Complete	The indicated appointment has completed normally (was not discontinued, canceled, or deleted)	
Cancelled	The indicated appointment was stopped from occurring (canceled prior to starting)	
Dc	The indicated appointment was discontinued (DC'ed while in progress, discontinued parent appointment, or discontinued child appointment)	
Deleted	The indicated appointment was deleted from the filler application	
Blocked	The indicated time slot(s) is(are) blocked	
Overbook	The appointment has been confirmed; however it is confirmed in an overbooked state	
Noshow	The patient did not show up for the appointment	

4.3 NTE: Notes and Comments

Sample message segment NTE:

NTE|0|L-Ancillary(Filler) Department is Source of Comment|ARQ NOTES|1R

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM #	ELEMENT NAME	DESCRIPTIONS
1	4	SI	O			00096	Set ID - NTE	
2	8	ID	O		0105	00097	Source of Comment	
3	655 36	FT	O	Y		00098	Comment	
4	250	CE	O		0364	01318	Comment Type	

HL7 Table 0105 - Source of comment

Value	Description	Comment
L	Ancillary (filler) department is source of comment	
P	Orderer (placer) is source of comment	
O	Other system is source of comment	

User-defined Table 0364 - Comment type

Value	Description	Comment
	Patient Instructions	
AI	Ancillary Instructions	
GI	General Instructions	
1R	Primary Reason	
2R	Secondary Reason	
GR	General Reason	
RE	Remark	
DR	Duplicate/Interaction Reason	

4.4 TQ1: Timing Quantity

Sample message segment TQ1:

TQ1|||||||200909160930|200909161030

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTION
1	4	SI	O			01627	Set ID - TQ1	
2	20	CQ	O			01628	Quantity	
3	540	RPT	O	Y	0335	01629	Repeat Pattern	
4	20	TM	O	Y		01630	Explicit Time	
5	20	CQ	O	Y		01631	Relative Time and Units	
6	20	CQ	O			01632	Service Duration	
7	26	TS	O			01633	Start date/time	
8	26	TS	O			01634	End date/time	
9	250	CWE	O	Y	0485	01635	Priority	
10	250	TX	O			01636	Condition text	
11	250	TX	O			01637	Text instruction	
12	10	ID	C		0427	01638	Conjunction	
13	20	CQ	O			01639	Occurrence duration	
14	10	NM	O			01640	Total occurrence's	

User-Defined Table 0485 – Extended Priority Codes

Value	Description	Comment
S	Stat	With highest priority
A	ASAP	Fill after S orders
R	Routine	Default
P	Preop	
C	Callback	
T	Timing critical	A request implying that it is critical to come as close as possible to the requested time, e.g., for a trough anti-microbial level.
TS<integer>		Timing critical within <integer> seconds.
TM<integer>		Timing critical within <integer> minutes.
TH<integer>		Timing critical within <integer> hours.
TD<integer>		Timing critical within <integer> days.
TW<integer>		Timing critical within <integer> weeks.
TL<integer>		Timing critical within <integer> months.
PRN	As needed	

4.5 PID: Patient Identification

Sample message segment PID:

PID||990119099999^02|990119099999^02~MYS00202212^08~F433^09~A3423232^01~L3764747^11|MYS00202212^08|&&Mohd Syariff Akmal Bin Mohd Iqbal Shah||19990919|R||0100^Melayu|45 Jalan Equine 9&Taman Equine, Bandar Putra Permai^^Seri Kembangan^Selangor^43300^C||^CP^+60122051468~^PH^+603-89412960|^PH^+603-89412960~^FX^+603-89412980||2^Married|01^Islam|||||||MYS^Malaysia

SEQ	LEN	DT	OPT	RP/#	TBL #	ITEM#	ELEMENT NAME	DESCRIPTION
1	4	SI	O			00104	Set ID - PID	Must be sequential Number Exp. 0,1,2,3
2	20	CX	B			00105	Patient ID	990119099999^02
3	250	CX	R	Y	3.0	00106	Patient Identifier List	990119099999^02~MYS00202212^08
4	20	CX	B	Y		00107	Alternate Patient ID - PID	MYS00202212^08
5	250	XPN	R	Y		00108	Patient Name	FamilyName->OwnSurname
7	26	TS	O			00110	Date/Time of Birth	YYYYMMDD
8	1	IS	O		3.1	00111	Administrative Sex	
10	250	CE	O	Y	3.2	00113	Race	Refer NHDD
11	250	XAD	O	Y	3.3	00114	Patient Address	
13	250	XTN	O	Y	3.4	00116	Phone Number - Home	
14	250	XTN	O	Y		00117	Phone Number - Business	
16	250	CE	O		3.4	00119	Marital Status	Refer NHDD
28	250	CE	B			00739	Nationality	Refer PSDD

For implementation, please refer to National Health Data Dictionary (NHDD/PD/2006 Version 2.0) or latest version.

SEQ 3 – Table 3.0 - Patient Identifier List			
Value	Description	Value	Description
01	Old IC	07	Work Permit
02	New IC (Eliminate dash)	08	Passport
03	Millitary Card Number	09	Birth Certificate
04	Police Card Number	10	Pension Card
05	Mother's IC	11	Driving License
06	Father's IC		

4.6 RGS: Resource Group Segment

Sample message segment RGS:
RGS|0|A

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTION
1	4	SI	R			01203	Set ID - RGS	
2	3	ID	C		0206	00763	Segment Action Code	
3	250	CE	O			01204	Resource Group ID	

4.7 AIS: Appointment Information – Service Resource

Sample message segment AIS:

AIS|0|A|DRU^Breast Endocrine and Metabolic Surgery |||||BOOKED

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTIONS
1	4	SI	R			00890	Set ID - AIS	
2	3	ID	C		0206	00763	Segment Action Code	
3	250	CE	R			00238	Universal Service Identifier	

4.8 AIL: Appointment Information – Location Resource

Sample message segment AIL:

AIL|0|A|Imaging Department^^^Celestra Medical Centre|C|||||BOOKED

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTION
1	4	SI	R			00902	Set ID - AIL	
2	3	ID	C		0206	00763	Segment Action Code	
3	80	PL	C	Y		00903	Location Resource ID	
4	250	CE	C		0305	00904	Location Type-AIL	

User-defined Table 0305 – Person location type

Value	Description	Comment
C	Clinic	
D	Department	
H	Home	
N	Nursing	
O	Provider' Office	
P	Phone	
S	SNF	

4.9 AIP: Appointment Information – Personnel Resource

Sample message segment AIP:

AIP|0|A|P00001^&&DrAhmad|||||||BOOKED

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTION
1	4	SI	R			00906	Set ID - AIP	
2	3	ID	C		0206	00763	Segment Action code	
3	250	XCN	C	Y		00913	Personnel Resource ID	
4	250	CE	C		0182	00907	Resource Type	

5. SRR: Scheduled Request Response from Filler Application to Placer Application (UNSUCCESSFUL)

Segment involved as below:

- ❖ MSH - > Please Refer MSH Detail at point 4.1
- ❖ MSA - > Please Refer MSA Detail at point 4.2
- ❖ ERR - > Please Refer ERR Detail at point 4.3
- ❖ SCH - > Remain information in ARQ segment from SRM
 - NTE - > Remain information from NTE Segment from SRM
- ❖ PID - > Remain information in PID segment from SRM
- ❖ RGS - > Remain information in RGS segment from SRM
- ❖ AIS - > Remain information in AIS segment from SRM
 - NTE - > Remain information in NTE segment from SRM

5.1 MSH: Message Header

Sample message segment MSH:

MSH|^~\&|IEKKM|FillerFacility|IEKKM|PlacerFacility|20090810043301|1003800|SRR^S01^SRR_S01|20090810043042|P|2.5||AL

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM #	ELEMENT NAME	Description
1	1	ST	R			00001	Field Separator	
2	4	ST	R			00002	Encoding Characters	^~\&
3	227	HD	O			00003	Sending Application	IEKKM
4	227	HD	O			00004	Sending Facility	Refer <i>KOD Facility MOH</i>
5	227	HD	O		1.0	00005	Receiving Application	IEKKM
6	227	HD	O			00006	Receiving Facility	Refer <i>KOD Facility MOH</i>
7	26	TS	R		1.0	00007	Date/Time Of Message	DateTime (YYYYMMDDhhmmss)
8	40	ST	O			00008	Security	Security ID will be assigned by MDeC
9	15	MSG	R			00009	Message Type	SRR with Trigger Events
10	20	ST	R			00010	Message Control ID	DateTime(YYYYMMDDhhmmss)
11	3	PT	R			00011	Processing ID	P
12	60	VID	R			00012	Version ID	2.5
15	2	ST	R			00015	Accept Acknowledgment Type	AL

5.2 MSA: Message Acknowledgement

Sample message segment MSA:

MSA|CE||Available Slot Not Found

SEQ	LEN	DT	OP T	RP/#	TBL#	ITEM #	ELEMENT NAME	DESCRIPTION
1	2	ID	R		0008	00018	Acknowledgment Code	
3	80	ST	B			00020	Text Message	
6	250	CE	B		0357	00023	Error Condition	

HL7 Table 0008 - Acknowledgment code

Value	Description	Comment
AA	Original mode: Application Accept - Enhanced mode: Application acknowledgment: Accept	
AE	Original mode: Application Error - Enhanced mode: Application acknowledgment: Error	
AR	Original mode: Application Reject - Enhanced mode: Application acknowledgment: Reject	
CA	Enhanced mode: Accept acknowledgment: Commit Accept	
CE	Enhanced mode: Accept acknowledgment: Commit Error	
CR	Enhanced mode: Accept acknowledgment: Commit Reject	

HL7 Table 0357 - Message error condition codes

Value	Description	Comment
0	Message accepted	Success. Optional, as the AA conveys success. Used for systems that must always return a status code.
100	Segment sequence error	Error: The message segments were not in the proper order, or required segments are missing.
101	Required field missing	Error: A required field is missing from a segment
102	Data type error	Error: The field contained data of the wrong data type, e.g. an NM field contained "FOO".
103	Table value not found	Error: A field of data type ID or IS was compared against the corresponding table, and no match was found.
200	Unsupported message type	Rejection: The Message Type is not supported.

Value	Description	Comment
201	Unsupported event code	Rejection: The Event Code is not supported.
202	Unsupported processing id	Rejection: The Processing ID is not supported.
203	Unsupported version id	Rejection: The Version ID is not supported.
204	Unknown key identifier	Rejection: The ID of the patient, order, etc., was not found. Used for transactions <i>other than</i> additions, e.g. transfer of a non-existent patient.
205	Duplicate key identifier	Rejection: The ID of the patient, order, etc., already exists. Used in response to addition transactions (Admit, New Order, etc.).
206	Application record locked	Rejection: The transaction could not be performed at the application storage level, e.g., database locked.
207	Application internal error	Rejection: A catchall for internal errors not explicitly covered by other codes.

Table 0010 - Text Message

Description
Available Slot Not Found
Placer Appointment ID Already Booked
Filler Appointment ID Not Found
Requested Service Not Supported By an Application
Patient Not Found
Patient Already Register For Same Service Today
Connection Down. Please Try Again Later

5.3 ERR: Message Acknowledgement

Sample message segment ERR:

ERR|||204^Unknown key identifier||0001^Available Slot Not Found

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTION
3	705	705	R		0357	0357	HL7 Error Code	0001^Available Slot Not Found
4	2	ID	R		0516	00861	Severity	W
5	705	CWE	R		0533	00864	Application Error Code	

HL7 Table 0357 0 Message Error Condition Code

Value	Description	Comment
0	Message accepted	Success. Optional, as the AA conveys success. Used for systems that must always return a status code.
100	Segment sequence error	Error: The message segments were not in the proper order, or required segments are missing.
101	Required field missing	Error: A required field is missing from a segment
102	Data type error	Error: The field contained data of the wrong data type, e.g. an NM field contained "FOO".
103	Table value not found	Error: A field of data type ID or IS was compared against the corresponding table, and no match was found.
200	Unsupported message type	Rejection: The Message Type is not supported
201	Unsupported event code	Rejection: The Event Code is not supported
202	Unsupported processing id	Rejection: The Processing ID is not supported.
203	Unsupported version id	Rejection: The Version ID is not supported
204	Unknown key identifier	Rejection: The ID of the patient, order, etc., was not found. Used for transactions <i>other than</i> additions, e.g. transfer of a non-existent patient
205	Duplicate key identifier	Rejection: The ID of the patient, order, etc., already exists. Used in response to addition transactions (Admit, New Order, etc.).
206	Application record locked	Rejection: The transaction could not be performed at the application storage

Value	Description	Comment
		level, e.g., database locked.
207	Application internal error	Rejection: A catchall for internal errors not explicitly covered by other codes.

Table 0516 – Error Severity

Value	Description	Comment
W	Warning	Transaction successful, but there may issues
I	Information	Transaction was successful but includes information e.g., inform patient
E	Error	Transaction was unsuccessful

Table 0533 – Application Error Code

Value	Description
0001	No Available Slot
0002	Appointment Already Booked
0003	Appointment Not Found
0004	Requested Service Not Supported
0005	Patient Not Found
0006	Patient Already Register For Same Service at Same Facility
0007	Patient ID Not Supported
0008	Connection Down. Please Try Again Later

5.4 SCH: Schedule Activity Information

Sample message segment SCH:

SCH|pl_cnc20090810043027||||New Appointment|ROUTINE||||^&&Dr. Subramaniam|^0389412981|^Klinik Kesehatan Seri Kembangan|^&&Dr. Aminah Saad|^&&Filler Front Counter

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTION
1	75	EI	C			00860	Placer Appointment ID	
2	75	EI	C			00861	Filler Appointment ID	
5	250	CE	O			00864	Schedule ID	
6	250	CE	R			00883	Event Reason	
7	250	CE	O		2.1	00866	Appointment Reason	
8	250	CE	O		2.2	00867	Appointment Type	
9	20	NM	B			00868	Appointment Duration	
10	250	CE	B			00869	Appointment Duration Units	
11	200	TQ	B	Y		00884	Appointment Timing Quantity	
12	250	XCN	O	Y		00874	Placer Contact Person	
13	250	XTN	O			00875	Placer Contact Phone Number	
15	80	PL	O			00877	Placer Contact Location	
16	250	XCN	R	Y		00885	Filler Contact Person	
20	250	XCN	R	Y		00878	Entered by Person	
25	250	CE	O		0278	00889	Filler Status Code	
26	22	EI	C	Y		00216	Placer Order Number	
27	22	EI	C	Y		00217	Filler Order Number	

6. SIU: Notification Scheduled Appointment from Filler to Placer

Segment involved as below:

- ❖ MSH
- ❖ SCH
 - TQ1
 - NTE
- ❖ PID
- ❖ RGS
- ❖ AIS
 - NTE
- ❖ AIL – Optional
 - NTE
- ❖ AIP – Optional
 - NTE



6.1 MSH: Message Header

Sample message segment MSH:

MSH|^~\&|IEKKM|FillerNotify|IEKKM|PlacerFacility|20090810043601|1003800|SIU^S12^SIU_S12|20090810043601|P|2.5

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM #	ELEMENT NAME	Description
1	1	ST	R			00001	Field Separator	
2	4	ST	R			00002	Encoding Characters	^~\&
3	227	HD	O			00003	Sending Application	IEKKM
4	227	HD	O			00004	Sending Facility	Refer <i>KOD Facility MOH</i>
5	227	HD	O		1.0	00005	Receiving Application	IEKKM
6	227	HD	O			00006	Receiving Facility	Refer <i>KOD Facility MOH</i>
7	26	TS	R		1.0	00007	Date/Time Of Message	DateTime (YYYYMMDDhhmmss)
8	40	ST	O			00008	Security	Security ID will be assigned by MDeC
9	15	MSG	R			00009	Message Type	SIU with trigger event
10	20	ST	R			00010	Message Control ID	DateTime(YYYYMMDDhhmmss)
11	3	PT	R			00011	Processing ID	P
12	60	VID	R			00012	Version ID	2.5
15	2	ST	R			00015	Accept Acknowledgment Type	AL

6.2 SCH: Schedule Activity Information

Sample message segment SCH:

SCH|PL_CNC20090810042749|FL_CNC20090810042749||20090810042749|New Appointment|ROUTINE||||^&&Dr
Muhammad|^^^^^^^^^^^^0345878787||^&&Klinik Sejahtera|^&&Dr. Maimunah||||^&&Cik. Normah||||BOOKED

SCH||FL_CNC20090810042749||20090810042749|New Appointment|ROUTINE||||^&&Dr
Muhammad|^^^^^^^^^^^^0345878787||^&&Klinik Sejahtera|^&&Dr. Maimunah||||^&&Cik. Normah||||BOOKED

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTION
1	75	EI	C			00860	Placer Appointment ID	* Must fill in if an appointment placed by placer. * Must Empty if an appointment made by filler itself for walk-in appointment.
2	75	EI	C			00861	Filler Appointment ID	
5	250	CE	O			00864	Schedule ID	
6	250	CE	R			00883	Event Reason	
7	250	CE	O		2.1	00866	Appointment Reason	
8	250	CE	O		2.2	00867	Appointment Type	
9	20	NM	B			00868	Appointment Duration	
10	250	CE	B			00869	Appointment Duration Units	
11	200	TQ	B	Y		00884	Appointment Timing Quantity	
12	250	XCN	O	Y		00874	Placer Contact Person	
13	250	XTN	O			00875	Placer Contact Phone Number	
15	80	PL	O			00877	Placer Contact Location	
16	250	XCN	R	Y		00885	Filler Contact Person	
20	250	XCN	R	Y		00878	Entered by Person	
25	250	CE	O		0278	00889	Filler Status Code	

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTION
26	22	EI	C	Y		00216	Placer Order Number	
27	22	EI	C	Y		00217	Filler Order Number	

6.3 NTE: Notes and Comments

Sample message segment NTE:

NTE|0|L-Ancillary(Filler) Department is Source of Comment|ARQ NOTES|PI

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM #	ELEMENT NAME	DESCRIPTIONS
1	4	SI	O			00096	Set ID - NTE	
2	8	ID	O		0105	00097	Source of Comment	
3	655 36	FT	O	Y		00098	Comment	
4	250	CE	O		0364	01318	Comment Type	

6.4 TQ1: Timing Quantity

Sample message segment TQ1:

TQ1|||||||200810060930|200810061030

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTION
1	4	SI	O			01627	Set ID - TQ1	
2	20	CQ	O			01628	Quantity	
3	540	RPT	O	Y	0335	01629	Repeat Pattern	
4	20	TM	O	Y		01630	Explicit Time	
5	20	CQ	O	Y		01631	Relative Time and Units	
6	20	CQ	O			01632	Service Duration	
7	26	TS	O			01633	Start date/time	
8	26	TS	O			01634	End date/time	
9	250	CWE	O	Y	0485	01635	Priority	
10	250	TX	O			01636	Condition text	
11	250	TX	O			01637	Text instruction	
12	10	ID	C		0427	01638	Conjunction	
13	20	CQ	O			01639	Occurrence duration	
14	10	NM	O			01640	Total occurrence's	

6.5 PID: Patient Identification

Sample message segment PID:

PID||880828088888^02|880828088888^02~MYS0023412^08~F433^09~A3423232^01~L3764747^11|MYS0023412^08|&&Khaira NurKhailisa Binti NorShahrul Hafiz||N||9999^No Information|13 Jalan Sentosa&Taman Seri Mahkota^Seri Kembangan^Selangor^43300^C||^CP^0122351452~^PH^0389457878|^PH~^FX||O^Other|01^Islam|||||||||MYS^Malaysia

SEQ	LEN	DT	OPT	RP/#	TBL #	ITEM#	ELEMENT NAME	DESCRIPTION
1	4	SI	O			00104	Set ID - PID	Must be sequential Number Exp. 0,1,2,3
2	20	CX	B			00105	Patient ID	990119099999^02
3	250	CX	R	Y	3.0	00106	Patient Identifier List	990119099999^02~MYS00202212^08
4	20	CX	B	Y		00107	Alternate Patient ID - PID	MYS00202212^08
5	250	XPN	R	Y		00108	Patient Name	FamilyName->OwnSurname
7	26	TS	O			00110	Date/Time of Birth	YYYYMMDD
8	1	IS	O		3.1	00111	Administrative Sex	
10	250	CE	O	Y	3.2	00113	Race	Refer NHDD
11	250	XAD	O	Y	3.3	00114	Patient Address	
13	250	XTN	O	Y	3.4	00116	Phone Number - Home	
14	250	XTN	O	Y		00117	Phone Number - Business	
16	250	CE	O		3.4	00119	Marital Status	Refer NHDD
28	250	CE	B			00739	Nationality	Refer PSDD

For implementation, please refer to National Health Data Dictionary (NHDD/PD/2006 Version 2.0) or latest version.

6.6 RGS: Resource Group Segment

Sample message segment RGS:
RGS|0|A

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTION
1	4	SI	R			01203	Set ID - RGS	
2	3	ID	C		0206	00763	Segment Action Code	
3	250	CE	O			01204	Resource Group ID	

6.7 AIS: Appointment Information – Service Resource

Sample message segment AIS:
AIS|0|A|DRU^Breast Endocrine and Metabolic Surgery |||||BOOKED

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTIONS
1	4	SI	R			00890	Set ID - AIS	
2	3	ID	C		0206	00763	Segment Action Code	
3	250	CE	R			00238	Universal Service Identifier	

6.8 AIL: Appointment Information – Location Resource

Sample message segment AIL:

AIL|0|A|Imaging Department^^^ViaMED Medical Centre|C|||||||BOOKED

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTION
1	4	SI	R			00902	Set ID - AIL	
2	3	ID	C		0206	00763	Segment Action Code	
3	80	PL	C	Y		00903	Location Resource ID	
4	250	CE	C		0305	00904	Location Type-AIL	

6.9 AIP: Appointment Information – Personnel Resource

Sample message segment AIP:

AIP|0|A|CNC1234^&&Dr. Faiz Nor|||||||BOOKED

SEQ	LEN	DT	OPT	RP /#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTION
1	4	SI	R			00906	Set ID - AIP	
2	3	ID	C		0206	00763	Segment Action code	
3	250	XCN	C	Y		00913	Personnel Resource ID	
4	250	CE	C		0182	00907	Resource Type	

7. ACK: Acknowledgment for SRM and SRR messages

Segment involved as below:

- ❖ MSH
- ❖ MSA

7.1 MSH: Message Header

Sample message segment MSH:

MSH|^~\&|IEKKM|PlacerFacility|IEKKM|FillerFacility|20090810043302|1003800|ACK|20090810043042|P|2.5||AL

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM #	ELEMENT NAME	Description
1	1	ST	R			00001	Field Separator	
2	4	ST	R			00002	Encoding Characters	^~\&
3	227	HD	O			00003	Sending Application	IEKKM
4	227	HD	O			00004	Sending Facility	Refer <i>KOD Facility MOH</i>
5	227	HD	O		1.0	00005	Receiving Application	IEKKM
6	227	HD	O			00006	Receiving Facility	Refer <i>KOD Facility MOH</i>
7	26	TS	R		1.0	00007	Date/Time Of Message	DateTime (YYYYMMDDhhmmss)
8	40	ST	O			00008	Security	Security ID will be assigned by MDeC
9	15	MSG	R			00009	Message Type	ACK
10	20	ST	R			00010	Message Control ID	DateTime(YYYYMMDDhhmmss)
11	3	PT	R			00011	Processing ID	P
12	60	VID	R			00012	Version ID	2.5
15	2	ST	R			00015	Accept Acknowledgment Type	AL

7.2 MSA: Message Acknowledgement

Sample message segment MSA:
MSA|CA|20080925155335

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM #	ELEMENT NAME	DESCRIPTION
1	2	ID	R		0008	00018	Acknowledgment Code	
2	20	ST	R			00010	Message Control ID	Must be same with MSH-10 Message control ID from incoming SRM/SRR message

HL7 Table 0008 - Acknowledgment code

Value	Description	Comment
CA	Enhanced mode: Accept acknowledgment: Commit Accept	
CE	Enhanced mode: Accept acknowledgment: Commit Error	
CR	Enhanced mode: Accept acknowledgment: Commit Reject	

8. Message from Placer Application to Filler Application (SQM)

8.1 MSH: Message Header

Sample message segment MSH:

MSH|^~\&|IEKKM|PlacerFacility|IEKKM|FillerFacility|20081230165232|1003800|SQM^S25^SQM_S25|20081230165232|P|2.5||AL

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM #	ELEMENT NAME	DESCRIPTIONS
1	1	ST	R			00001	Field Separator	
2	4	ST	R			00002	Encoding Characters	^~\&
3	227	HD	O		1.0	00003	Sending Application	IEKKM
4	227	HD	O			00004	Sending Facility	Refer <i>KOD Facility MOH</i>
5	227	HD	O		1.0	00005	Receiving Application	IEKKM
6	227	HD	O			00006	Receiving Facility	Refer <i>KOD Facility MOH</i>
7	26	TS	R			00007	Date/Time Of Message	YYYYMMDDhhmmss
8	40	ST	O			00008	Security	Security ID will be assigned by MDeC
9	15	MSG	R			00009	Message Type	SRM or SRR with Trigger Events
10	20	ST	R			00010	Message Control ID	DateTime(YYYYMMDDhhmmss)
11	3	PT	R			00011	Processing ID	P
12	60	VID	R			00012	Version ID	2.5
15	2	ST	R			00015	Accept Acknowledgment Type	AL

SEQ 3 -Table 1.0 - Sending Application							
Provider	Application	Facility	Location	Provider	Application	Facility	Location
Kompakar	CISKOMPAKAR	21-16010003	KK Putrajaya	MOH/DAPAT	IEKKM	SMSDAPAT	
Heitech Padu	SPPHTP	eklportal					
BrilianceInfo	TPCBRINFO	21-10070062	KK Seri Kembangan	BrilianceInfo	TPCBRINFO	21-10090057	KK Salak
BrilianceInfo	TPCBRINFO	21-14010014	KK Jinjang	BrilianceInfo	TPCBRINFO	21-14010021	KK Tanglin
BrilianceInfo	TPCBRINFO	21-10020039	Kajang KK	BrilianceInfo	TPCBRINFO	21-14010010	KK Batu
BrilianceInfo	TPCBRINFO	Bangi KK	Bangi KK	BrilianceInfo	TPCBRINFO	21-10070043	KK Kelana Jaya
BrilianceInfo	TPCBRINFO	21-10070063	KK Shah Alam	BrilianceInfo	TPCBRINFO	21-10070206	KK Medan Maju Jaya
BrilianceInfo	TPCBRINFO	21-10040048	KK Pandamaran	BrilianceInfo	TPCBRINFO	21-10040033	KK Bukit Kuda
BrilianceInfo	TPCBRINFO	Aneka-Klang-KK	KK Aneka Klang	BrilianceInfo	TPCBRINFO	21-10020219	KK Batu 9 Cheras
BrilianceInfo	TPCBRINFO	21-10010071	KK Taman Ehsan	BrilianceInfo	TPCBRINFO	21-10010063	KK Sungai Buloh
BrilianceInfo	TPCBRINFO	21-10010059	KK Selayang Baru	BrilianceInfo	TPCBRINFO	21-10070051	KK Puchong

8.2 QRD: Original-Style Query Definition Segment

Sample message segment QRD:

QRD|20081230165232|R|D| CNC-QRD-01|||2^RD&Records||SOP

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTIONS
1	26	TS	R			00025	Query Date/Time	DateTime(YYYYMMDDhhmmss). e.g 20081230165232
2	1	ID	R		0106	00026	Query Format Code	Should be R for Record-Oriented Format
3	1	ID	R		0091	00027	Query Priority	Should be D for Deferred
4	10	ST	R			00028	Query ID	Must be unique for each QRD dispatched
7	10	CQ	R		0126	00031	Quantity Limited Request	Should be RD for Record
8	250	XCN	R	Y		00032	Who Subject Filter	
9	250	CE	R	Y	0048	00033	What Subject Filter	Refer to Table 0048
10	250	CE	R	Y		00034	What Department Data Code	

SEQUENCE 8 – Who Subject Filter (Allow Repeatable)

- XCN data type
 - o ID Number – One of the IC #, passport #, birth certificate and etc.
 - o Family Name -> Own Surname

SEQUENCE 9 - What subject filter - HL7 Table 0048

VALUE	DESCRIPTION	COMMENT
SAL	All schedule related information, including open slots, booked slots, blocked slots	
SBK	Booked slots on the identified schedule	
SBL	Blocked slots on the identified schedule	
SOF	First open slot on the identified schedule after the start date/time	
SOP	Open slots on the identified schedule between the begin and end of the start date/time range	
SSA	Time slots available for a single appointment	
SSR	Time slots available for a recurring appointment	

8.3 QRF: Original Style Query Filter Segment

Sample message segment QRF:

QRF|||||||^^^20081231080000^20090109173000

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTIONS
1	20	ST	R	Y		00037	Where Subject Filter	Code Value of Service. Refer to Table 1.0
9	60	TQ	O			00694	When Quantity/Timing Qualifier	Date Range

SEQUENCE 1 – Where Subject Filter – Table 1.0

VALUE	SERVICE TYPE	SERVICE NAME SERVICE	VALUE	SERVICE TYPE	SERVICE NAME SERVICE
DRU	Consultation	Breast Endocrine and Metabolic Surgery	ORTHO	Consultation	Orthopaedic
CTS	Consultation	Cardiothoracic Surgery	ENT	Consultation	Otorhinolaryngology
DER	Consultation	Dermatology	PAED	Consultation	Paediatric
FORM	Consultation	Forensic / Mortuary	PAED	Consultation	Paediatric Medicine
SUR	Consultation	General Surgery	PAEDS	Consultation	Paediatric Surgery
GER	Consultation	Geriatric	PAL	Consultation	Paliatif Medicine
GYN	Consultation	Gynaecology	PAT	Consultation	Pathology
HAE	Consultation	Haematology	PLA	Consultation	Plastic Surgery
HMS	Consultation	Hand and Micro Surgery	PHI	Consultation	Psychiatry
HEPS	Consultation	Hepatobiliary Surgery	RAD	Consultation	Radiology

HEP	Consultation	Hepatobiliary	REHAB	Consultation	Rehabilitatif Medicine
INF	Consultation	Infectious Disease	RES	Consultation	Respiratory Medicine
NEP	Consultation	Nephrology	RHU	Consultation	Rheumatology
NEU	Consultation	Neurology	URO	Consultation	Urology
NEUS	Consultation	Neurosurgery	VASS	Consultation	Vascular Surgery
NUCM	Consultation	Nuclear Medicine	OTHER	Consultation	Other / Multidiscipline
O&G	Consultation	Obstetric	OPH	Consultation	Ophthalmology
OPH	Consultation	Ophthalmology	GEN	Consultation	General Medicine

SEQUENCE 9 - When Quantity/Timing Qualifier

- TQ Data Type
 - o Start Date
 - o End Date

9. Message from Filler Application to Placer Application (SQR)

9.1 MSH: Message Header

Sample message segment MSH:

MSH|^~\&|IEKKM|FillerFacility|IEKKM|PlacerFacility|20081029143546|1003800|SRR^S01^SRR_S01|20081029143036||2.5||AL

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM #	ELEMENT NAME	Description
1	1	ST	R			00001	Field Separator	
2	4	ST	R			00002	Encoding Characters	^~\&
3	227	HD	O			00003	Sending Application	IEKKM
4	227	HD	O			00004	Sending Facility	Refer <i>KOD Facility MOH</i>
5	227	HD	O		1.0	00005	Receiving Application	IEKKM
6	227	HD	O			00006	Receiving Facility	Refer <i>KOD Facility MOH</i>
7	26	TS	R		1.0	00007	Date/Time Of Message	DateTime (YYYYMMDDhhmmss)
8	40	ST	O			00008	Security	Security ID will be assigned by MDeC
9	15	MSG	R			00009	Message Type	SRM or SRR with Trigger Events
10	20	ST	R			00010	Message Control ID	DateTime(YYYYMMDDhhmmss)
11	3	PT	R			00011	Processing ID	P
12	60	VID	R			00012	Version ID	2.5
15	2	ST	R			00015	Accept Acknowledgment Type	AL

9.2 MSA: Message Acknowledgement

Sample message segment MSA:

MSA|CA|20080925155335

HL7 Attribute Table - MSA - Message Acknowledgment

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM #	ELEMENT NAME	DESCRIPTION
1	2	ID	R		0008	00018	Acknowledgment Code	
2	20	ST	R			00010	Message Control ID	
3	80	ST	B			00020	Text Message	
6	250	CE	B		0357	00023	Error Condition	

HL7 Table 0008 - Acknowledgment code

Value	Description	Comment
AA	Original mode: Application Accept - Enhanced mode: Application acknowledgment: Accept	
AE	Original mode: Application Error - Enhanced mode: Application acknowledgment: Error	
AR	Original mode: Application Reject - Enhanced mode: Application acknowledgment: Reject	
CA	Enhanced mode: Accept acknowledgment: Commit Accept	
CE	Enhanced mode: Accept acknowledgment: Commit Error	
CR	Enhanced mode: Accept acknowledgment: Commit Reject	

HL7 Table 0357 - Message error condition codes

Value	Description	Comment
0	Message accepted	Success. Optional, as the AA conveys success. Used for systems that must always return a status code.
100	Segment sequence error	Error: The message segments were not in the proper order, or required segments are missing.
101	Required field missing	Error: A required field is missing from a segment
102	Data type error	Error: The field contained data of the wrong data type, e.g. an NM field contained "FOO".
103	Table value not found	Error: A field of data type ID or IS was compared against the corresponding table, and no match was found.
200	Unsupported message type	Rejection: The Message Type is not supported.
201	Unsupported event code	Rejection: The Event Code is not supported.
202	Unsupported processing id	Rejection: The Processing ID is not supported.
203	Unsupported version id	Rejection: The Version ID is not supported.
204	Unknown key identifier	Rejection: The ID of the patient, order, etc., was not found. Used for transactions <i>other than</i> additions, e.g. transfer of a non-existent patient.
205	Duplicate key identifier	Rejection: The ID of the patient, order, etc., already exists. Used in response to addition transactions (Admit, New Order, etc.).
206	Application record locked	Rejection: The transaction could not be performed at the application storage level, e.g., database locked.
207	Application internal error	Rejection: A catchall for internal errors not explicitly covered by other codes.

9.3 QAK – QUERY ACKNOWLEDGMENT

Sample message segment MSA:

QAK|CNC-QRD-01|OK

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTIONS
1	32	ST	C			00696	Query Tag	TAG ID
2	2	ID	O		0208	00708	Query Response Status	Refer Table 0208

SEQUENCE2 – Query Response Status – Table 0208

Value	Description
OK	Data found, no errors (this is the default)
NF	No data found, no errors
AE	Application error
AR	Application reject

9.4 SCH: Schedule Activity Information

Sample message segment SCH:

SCH|PLACER001|FILLER001|||2008100|New Appointment|ROUTINE|||&&Dr. Subramaniam|^0389412981|^Klinik Kesihatan Seri Kembangan|^&&Dr. Aminah Saad|^&&Filler Front Counter|||BOOKED

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTION
1	75	EI	C			00860	Placer Appointment ID	
2	75	EI	C			00861	Filler Appointment ID	
5	250	CE	O			00864	Schedule ID	
6	250	CE	R			00883	Event Reason	
7	250	CE	O		2.1	00866	Appointment Reason	
8	250	CE	O		2.2	00867	Appointment Type	
9	20	NM	B			00868	Appointment Duration	
10	250	CE	B			00869	Appointment Duration Units	
11	200	TQ	B	Y		00884	Appointment Timing Quantity	
12	250	XCN	O	Y		00874	Placer Contact Person	
13	250	XTN	O			00875	Placer Contact Phone Number	
15	80	PL	O			00877	Placer Contact Location	
16	250	XCN	R	Y		00885	Filler Contact Person	
20	250	XCN	R	Y		00878	Entered by Person	
25	250	CE	O		0278	00889	Filler Status Code	
26	22	EI	C	Y		00216	Placer Order Number	
27	22	EI	C	Y		00217	Filler Order Number	

User-defined Table 0278 - Filler status codes

Value	Description	Comment
Pending	Appointment has not yet been confirmed	
Waitlist	Appointment has been placed on a waiting list for a particular slot, or set of slots	
Booked	The indicated appointment is booked	
Started	The indicated appointment has begun and is currently in progress	
Complete	The indicated appointment has completed normally (was not discontinued, canceled, or deleted)	
Cancelled	The indicated appointment was stopped from occurring (canceled prior to starting)	
Dc	The indicated appointment was discontinued (DC'ed while in progress, discontinued parent appointment, or discontinued child appointment)	
Deleted	The indicated appointment was deleted from the filler application	
Blocked	The indicated time slot(s) is(are) blocked	
Overbook	The appointment has been confirmed; however it is confirmed in an overbooked state	
Noshow	The patient did not show up for the appointment	

9.5 NTE: Notes and Comments

Sample message segment NTE:

NTE|0|L-Ancillary(Filler) Department is Source of Comment|ARQ NOTES|1R

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM #	ELEMENT NAME	DESCRIPTIONS
1	4	SI	O			00096	Set ID - NTE	
2	8	ID	O		0105	00097	Source of Comment	
3	65536	FT	O	Y		00098	Comment	
4	250	CE	O		0364	01318	Comment Type	

HL7 Table 0105 - Source of comment

Value	Description	Comment
L	Ancillary (filler) department is source of comment	
P	Orderer (placer) is source of comment	
O	Other system is source of comment	

User-defined Table 0364 - Comment type

Value	Description	Comment	Value	Description	Comment
PI	Patient Instructions		2R	Secondary Reason	
AI	Ancillary Instructions		GR	General Reason	
GI	General Instructions		RE	Remark	
1R	Primary Reason		DR	Duplicate/Interaction Reason	

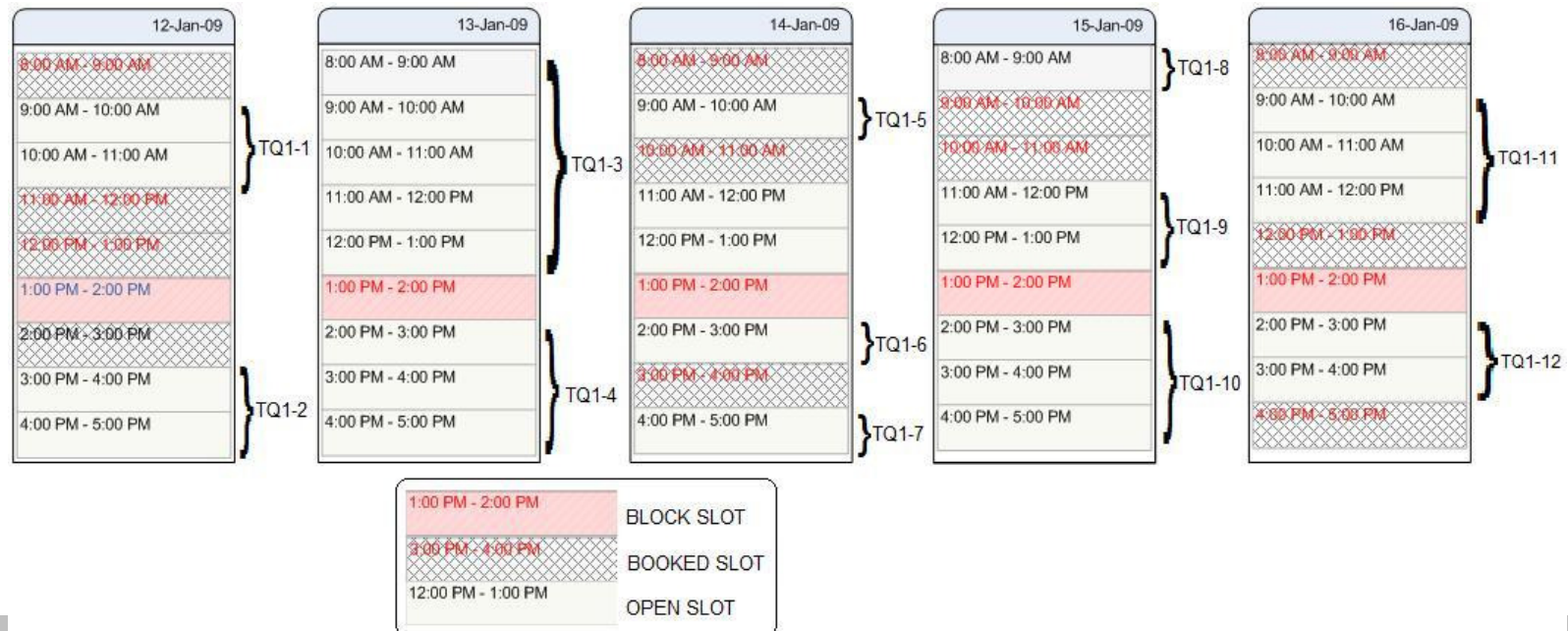
9.6 TQ1: Timing Quantity

Sample message segment TQ1

TQ1|0||||30^M|20090111090000|20090111110000

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTIONS
3	540	RPT	O	Y	0335	01629	Repeat Pattern	Refer Table 0335
5	20	CQ	O	Y		01631	Relative Time and Units	Refer Table
6	20	CQ	O			01632	Service Duration	Refer Table
7	26	TS	O			01633	Start date/time	DateTime(YYYYMMDDhhmmss). e.g 20090109103000
8	26	TS	O			01634	End date/time	DateTime(YYYYMMDDhhmmss). e.g 20090109110000
9	250	CWE	O	Y	0485	01635	Priority	

Diagram 1.0 : View of developing Multiple TQ1



Sample Sample of TQ1 base on Diagram Above

TQ1|0|||||30^M|20090111090000|20090111110000
 TQ1|1|||||30^M|20090111150000|20090111170000
 TQ1|2|||||30^M|20090112080000|20090112130000
 TQ1|3|||||30^M|20090112140000|20090112170000
 TQ1|4|||||30^M|20090113090000|20090113100000
 TQ1|5|||||30^M|20090113110000|20090113130000
 TQ1|6|||||30^M|20090113140000|20090113150000
 TQ1|7|||||30^M|20090113160000|20090113170000
 TQ1|8|||||30^M|20090114080000|20090114090000
 TQ1|9|||||30^M|20090114110000|20090114130000
 TQ1|10|||||30^M|20090114140000|20090114170000
 TQ1|11|||||30^M|20090115090000|20090115120000
 TQ1|12|||||30^M|20090115140000|20090115160000

SEQUENCE 9 - Priority - User-Defined Table 0485 – Extended Priority Codes

Value	Description	Comment
S	Stat	With highest priority
A	ASAP	Fill after S orders
R	Routine	Default
P	Preop	
C	Callback	
T	Timing critical	A request implying that it is critical to come as close as possible to the requested time, e.g., for a trough antimicrobial level.
TS<integer>		Timing critical within <integer> seconds.
TM<integer>		Timing critical within <integer> minutes.
TH<integer>		Timing critical within <integer> hours.
TD<integer>		Timing critical within <integer> days.

TW<integer>		Timing critical within <integer> weeks.
TL<integer>		Timing critical within <integer> months.
PRN	As needed	

SEQUENCE 3 - Repeat Pattern - User-defined Table 0335 - Repeat pattern

Value	Description	Comment
Q<integer>S	every <integer> seconds	
Q<integer>M	every <integer> minutes	
Q<integer>H	every <integer> hours	
Q<integer>D	every <integer> days	
Q<integer>W	every <integer> weeks	
Q<integer>L	every <integer> months (Lunar cycle)	
Q<integer>J<day#>	repeats on a particular day of the week	From the French <i>jour</i> (day). If <integer> is missing, the repeat rate is assumed to be 1. Day numbers are counted from 1=Monday to 7=Sunday. So Q2J2 means every second Tuesday; Q1J6 means every Saturday.
BID	twice a day at institution-specified times	(e.g., 9AM-4PM)
TID	three times a day at institutionspecified times	(e.g., 9AM-4PM-9PM)
QID	four times a day at institutionspecified times	(e.g., 9AM-11AM-4PM-9PM)
xID	"X" times per day at institutionspecified times, where X is a numeral 5 or greater.	(e.g., 5ID=five times per day; 8ID=8 times per day)
QAM	in the morning at institutionspecified time	
QSHIFT	during each of three eight-hour shifts at	

	institution-specified times	
QOD	every other day	(same as Q2D)
QHS	every day before the hour of sleep	
QPM	in the evening at institutionspecified time	
C	service is provided continuously between start time and stop time	
U <spec>	for future use, where <spec> is an interval specification as defined by the UNIX cron specification.	
PRN	given as needed	
PRNxxx	where xxx is some frequency code	(e.g., PRNQ6H); given as needed over the frequency period.
Once	one time only.	This is also the default when this component is null.
Meal Related Timings	<timing>C ("cum")<meal>	
A	Ante (before)	
P	Post (after)	
I	Inter	(e.g., between this meal and the next, between dinner and sleep)
M	Cibus Matutinus (breakfast)	
D	Cibus Diurnus (lunch)	
V	Cibus Vespertinus (dinner)	

9.7 PID: Patient Identification

Sample message segment PID:

PID||990119099999^12|990119099999~CNC0000001|CNC0000001|&&Mohd Syariff Akmal Bin Mohd Iqbal
 Shah^^^^^^L||19990919|M||0100^Melayu|45 Jalan Equine 9&Taman Equine, Bandar Putra Permai^^Seri
 Kembangan^Selangor^43300^^C||^^CP^^^^^^^^^^+60121234567~^^PH^^^^^^^^^^+60389412960|^PH^^^^^^^^^^+60389412960~^^FX^^^^^^^^^^+6038
 9412980||M^Married|00^No Information

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTION
1	4	SI	O			00104	Set ID - PID	Must be sequential Number Exp. 0,1,2,3
2	20	CX	B			00105	Patient ID	
3	250	CX	R	Y	3.0	00106	Patient Identifier List	
4	20	CX	B	Y		00107	Alternate Patient ID - PID	
5	250	XPN	R	Y		00108	Patient Name	FamilyName->OwnSurname
7	26	TS	O			00110	Date/Time of Birth	YYYYMMDD
8	1	IS	O		3.1	00111	Administrative Sex	
10	250	CE	O	Y	3.2	00113	Race	
11	250	XAD	O	Y	3.3	00114	Patient Address	
13	250	XTN	O	Y	3.4	00116	Phone Number - Home	
14	250	XTN	O	Y		00117	Phone Number - Business	
16	250	CE	O		3.4	00119	Marital Status	Refer NHDD
28	250	CE	B		3.6	00739	Nationality	Refer PSDD

9.8 RGS: Resource Group Segment

Sample message segment RGS:

RGS|0|A

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTION
1	4	SI	R			01203	Set ID - RGS	
2	3	ID	C		0206	00763	Segment Action Code	
3	250	CE	O			01204	Resource Group ID	

9.9 AIS: Appointment Information – Service Resource

Sample message segment AIS:

AIS|2||DER^DEMATOLOGY

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	DESCRIPTIONS
1	4	SI	R			00890	Set ID - AIS	
2	3	ID	C		0206	00763	Segment Action Code	
3	250	CE	R			00238	Universal Service Identifier	

VALUE	SERVICE TYPE	SERVICE NAME SERVICE	VALUE	SERVICE TYPE	SERVICE NAME SERVICE
DRU	Consultation	Breast Endocrine and Metabolic Surgery	ORTHO	Consultation	Orthopaedic
CTS	Consultation	Cardiothoracic Surgery	ENT	Consultation	Otorhinolaryngology
DER	Consultation	Dermatology	PAED	Consultation	Paediatric
FORM	Consultation	Forensic / Mortuary	PAED	Consultation	Paediatric Medicine
SUR	Consultation	General Surgery	PAEDS	Consultation	Paediatric Surgery
GER	Consultation	Geriatric	PAL	Consultation	Paliatif Medicine
GYN	Consultation	Gynaecology	PAT	Consultation	Pathology
HAE	Consultation	Haematology	PLA	Consultation	Plastic Surgery
HMS	Consultation	Hand and Micro Surgery	PHI	Consultation	Psychiatry
HEPS	Consultation	Hepatobiliary Surgery	RAD	Consultation	Radiology
HEP	Consultation	Hepatobiliary	REHAB	Consultation	Rehabilitatif Medicine
INF	Consultation	Infectious Disease	RES	Consultation	Respiratory Medicine
NEP	Consultation	Nephrology	RHU	Consultation	Rheumatology
NEU	Consultation	Neurology	URO	Consultation	Urology
NEUS	Consultation	Neurosurgery	VASS	Consultation	Vascular Surgery
NUCM	Consultation	Nuclear Medicine	OTHER	Consultation	Other / Multidiscipline
O&G	Consultation	Obstetric	OPH	Consultation	Ophthalmology
OPH	Consultation	Ophthalmology	GEN	Consultation	General Medicine

10. SAMPLE FULL MESSAGE

10.1 Successful Schedule Appointment

Sending SRM^S01 Message From Placer To Filler

MSH|^~\&|IEKKM|PlacerFacility|IEKKM|FillerFacility|20090810043042|1003800|SRM^S01^SRM_S01|20090810043042||2.5|||AL
ARQ|pl_cnc20090810043027|||New Appointment|ROUTINE|||200909150900^200909191700|||^&&Dr.
Subramaniam|^^^^^^^^^^0389412981|^Klinik Kesihatan Seri Kembangan|^&&Siti Mariam
NTE|0|L-Ancillary(Filler) Department is Source of Comment|ARQ NOTES|PI
PID||990119099999^^^^02|990119099999^^^^02~MYS00202212^^^^08~F433^^^^09~A3423232^^^^01~L3764747^^^^11|MYS00202212^^^^08|&&Mo
hd Syariff Akmal Bin Mohd Iqbal Shah||19990919|L||0100^Melayu|45 Jalan Equine 9&Taman Equine, Bandar Putra Permai^^Seri
Kembangan^Selangor^43300^^C||^CP^^^^^^^^+60122051468~^PH^^^^^^^^+603-89412960|^PH^^^^^^^^+603-89412960~^FX^^^^^^^^+603-
89412980||2^Married|01^Islam|||MYS^Malaysia
RGS|0|A
AIS|0|A|DRU^Breast Endocrine and Metabolic Surgery
NTE|0|L-Ancillary(Filler) Department is Source of Comment|Service Resources Notes|PI

Receiving ACK Message by Placer From Filler

MSH|^~\&|IEKKM|FillerFacility|IEKKM|PlacerFacility|20090810043043|1003800|ACK|20090810043042|P|2.5|||AL
MSA|CA|20090810043042



Sending SRR^S01 Message From Filler Tor Placer

MSH|^~\&|IEKKM|FillerFacility|IEKKM|PlacerFacility|20090810043148|1003800|SRR^S01^SRR_S01|20090810043148|P|2.5|||AL
SCH|pl_cnc20090810043027|fl_cnc20090810042747|||20090810042747|New Appointment|ROUTINE||||^&&Dr.
Subramaniam|^0389412981|^Klinik Kesihatan Seri Kembangan|^&&Dr. Aminah Saad|||^&&Filler Front Counter|||BOOKED
TQ1|||200909160930|200909161030
NTE|0|L-Ancillary(Filler) Department is Source of Comment|ARQ NOTES|1R
PID||990119099999^^^02|990119099999^^^02~MYS00202212^^^08~F433^^^09~A3423232^^^01~L3764747^^^11|MYS00202212^^^08|&&Mo
hd Syariff Akmal Bin Mohd Iqbal Shah||19990919|R||0100^Melayu|45 Jalan Equine 9&Taman Equine, Bandar Putra Permai^^Seri
Kembangan^Selangor^43300^^C|^CP^^^+60122051468~^PH^^^+603-89412960|^PH^^^+603-89412960~^FX^^^+603-
89412980||2^Married|01^Islam|||MYS^Malaysia
RGS|0|A
AIS|0|A|DRU^Breast Endocrine and Metabolic Surgery|||BOOKED
NTE|0|L-Ancillary(Filler) Department is Source of Comment|Service Resources Notes|1R
AIP|0|A|P00001^&&DrAhmad|||BOOKED
NTE|0|L-Ancillary(Filler) Department is Source of Comment|Personnel Resouces NOTES|PI

Receiving ACK Message by Filler From Placer

MSH|^~\&|IEKKM|PlacerFacility|IEKKM|FillerFacility|20090810043148|1003800|ACK|20090810043148|P|2.5|||AL
MSA|CA|20090810043148



10.2 Unsuccessful Schedule Appointment

Sending SRM^S01 Message From Placer To Filler

MSH|^~\&|IEKKM|PlacerFacility|IEKKM|FillerFacility|20090810043042|1003800|SRM^S01^SRM_S01|20090810043042||2.5|||AL
ARQ|pl_cnc20090810043027|||New Appointment|ROUTINE|||200909150900^200909191700|||^&&Dr.
Subramaniam|^^^^^^^^^^^^0389412981|^Klinik Kesihatan Seri Kembangan|^&&Siti Mariam
NTE|0|L-Ancillary(Filler) Department is Source of Comment|ARQ NOTES|PI
PID||990119099999^02|990119099999^02~MYS00202212^08~F433^09~A3423232^01~L3764747^11|MYS00202212^08|&&Mo
hd Syariff Akmal Bin Mohd Iqbal Shah||19990919|L||0100^Melayu|45 Jalan Equine 9&Taman Equine, Bandar Putra Permai^Seri
Kembangan^Selangor^43300^C|^CP^^^^^^^^+60122051468~^PH^^^^^^^^+603-89412960|^PH^^^^^^^^+603-89412960~^FX^^^^^^^^+603-
89412980||2^Married|01^Islam|||||MYS^Malaysia
RGS|0|A
AIS|0|A|DRU^Breast Endocrine and Metabolic Surgery
NTE|0|L-Ancillary(Filler) Department is Source of Comment|Service Resources Notes|PI

Receiving ACK Message by Placer From Filler

MSH|^~\&|IEKKM|FillerFacility|IEKKM|PlacerFacility|20090810043043|1003800|ACK|20090810043042|P|2.5|||AL
MSA|CA|20090810043042



Sending SRR^S01 Message From Filler Tor Placer

MSH|^~\&|IEKKM|FillerFacility|IEKKM|PlacerFacility|20090810043301|1003800|SRR^S01^SRR_S01|20090810043042|P|2.5|||AL
MSA|CE||Available Slot Not Found
ERR|||204^Unknown key identifier||0001^Available Slot Not Found!!!
SCH|pl_cnc20090810043027|||New Appointment|ROUTINE|||^&&Dr. Subramaniam|^0389412981||^Klinik Kesihatan Seri
Kembangan|^&&Dr. Aminah Saad|||^&&Filler Front Counter
NTE|0|L-Ancillary(Filler) Department is Source of Comment|ARQ NOTES|1R
PID||990119099999^^^02|990119099999^^^02~MYS00202212^^^08~F433^^^09~A3423232^^^01~L3764747^^^11|MYS00202212^^^08|&&Mo
hd Syariff Akmal Bin Mohd Iqbal Shah||19990919|R||0100^Melayu|45 Jalan Equine 9&Taman Equine, Bandar Putra Permai^^Seri
Kembangan^Selangor^43300^^C||^CP^^^+60122051468~^^PH^^^+603-89412960|^PH^^^+603-89412960~^^FX^^^+603-
89412980||2^Married|01^Islam|||MYS^Malaysia
RGS|0
AIS|0||DRU^Breast Endocrine and Metabolic Surgery|||BOOKED
NTE|0|L-Ancillary(Filler) Department is Source of Comment|Service Resources Notes|1R

Receiving ACK Message by Filler From Placer

MSH|^~\&|IEKKM|PlacerFacility|IEKKM|FillerFacility|20090810043302|1003800|ACK|20090810043042|P|2.5|||AL
MSA|CA|20090810043042



10.3 Notification Schedule Appointment from Filler to Placer

Sending SIU^S12 Message From Placer To Filler

MSH|^~\&|IEKKM|FillerNotify|IEKKM|PlacerFacility|20090806190731|1003800|SIU^S12^SIU_S12|20090806190731||2.5||AL
SCH|PL_CNC20090806190655|FL_CNC20090806190655|||20090806190655|New Appointment|ROUTINE||||^&&Dr
Muhammad|^^^^^^^^^^^^0345878787|^^^Klinik Sejahtera|^&&Dr. Maimunah|||^&&Cik. Normah|||BOOKED
TQ1|||200810060930|200810061030
NTE|0|L-Ancillary(Filler) Department is Source of Comment|ARQ NOTES|PI
PID||880828088888^^^02|880828088888^^^02~MYS0023412^^^08|MYS0023412^^^08|^&&Khaira NurKhailisa Binti NorShahrul
Hafiz||F|9999^No Information|13 Jalan Sentosa&Taman Seri Mahkota^^Seri
Kembangan^Selangor^43300^^C||^CP^^^^^^^^^^+60122351452~^PH^^^^^^^^^^+60389457878|^PH~^FX||O^Other|01^Islam|||MY-
^alaysia
RGS|0|A
AIS|0|A|RAD^RADIOLOGY|||BOOKED
NTE|0|L-Ancillary(Filler) Department is Source of Comment|Service Resources NOTES|PI
AIP|0|A|CNC1234^&&Dr. Faiz Nor|||BOOKED
NTE|0|L-Ancillary(Filler) Department is Source of Comment|Personnel Resouces NOTES|PI

Receiving ACK Message by Placer From Filler

MSH|^~\&|IEKKM|PlacerFacility|IEKKM|FillerNotify|20090806070731|1003800|ACK|20090806190731|P|2.5||AL
MSA|CA|20090806190731



Sending SIU^S13 Message From Placer To Filler

MSH|^~\&|IEKKM|FillerNotify|IEKKM|PlacerFacility|20090806201920|1003800|SIU^S13^SIU_S12|20090806201920||2.5||AL
SCH||FL_CNC20090806190655|||20090806190655|New Appointment|ROUTINE||||^&&Dr Muhammad|^^^^^^^^^^0345878787|^Klinik
Sejahtera|^&&Dr. Maimunah|||^&&Cik. Normah|||BOOKED
TQ1|||200810060930|200810061030
NTE|0|L-Ancillary(Filler) Department is Source of Comment|ARQ NOTES|PI
PID||880828088888^^^02|880828088888^^^02~MYS0023412^^^08|MYS0023412^^^08|^&&Khaira NurKhailisa Binti NorShahrul
Hafiz||F|^9999^No Information|13 Jalan Sentosa&Taman Seri Mahkota^^Seri
Kembangan^Selangor^43300^^C|^CP^^^^^^+60122351452~^PH^^^^^^+60389457878|^PH~^FX|^O^Other|01^Islam|||MYS^Mala
ysia
RGS|0|U
AIS|0|U|RAD^RADIOLOGY|||BOOKED
NTE|0|L-Ancillary(Filler) Department is Source of Comment|Service Resources NOTES|PI
AIP|0|U|CNC1234^&&Dr. Faiz Nor|||BOOKED
NTE|0|L-Ancillary(Filler) Department is Source of Comment|Personnel Resouces NOTES|PI

Receiving ACK Message by Placer From Filler

MSH|^~\&|IEKKM|PlacerFacility|IEKKM|FillerNotify|20090806081920|1003800|ACK|20090806201920|P|2.5||AL
MSA|CA|20090806201920



10.4 SOP-QUERY OPEN SLOT WITH SPECIFIC SERVICE & SECIFIC DATE RANGE

MSH|^~\&|IEKKM|PlacerFacility|IEKKM|FillerFacility|20090110172549|1003800|SQM^S25^SQM_S25|20090110172549|P|2.5|||AL
QRD|20090110172549|R|D|CNC-QRD-01|||2^RD&Records||SOP
QRF|DRU|||||||^^^20090112080000^20090116173000

MSH|^~\&|IEKKM|FillerFacility|IEKKM|PlacerFacility|20090110052549|1003800|ACK|20090110172549|P|2.5|||AL
MSA|CA|20090110172549

MSH|^~\&|IEKKM|FillerFacility|IEKKM|PlacerFacility|20090110052620|1003800|SQR^S25^SQR_S25|20090110052620|P|2.5|||AL
QAK|CNC-QRD-01|OK
SCH||FL_CNC20090110052620.0|||||||^^&CIK NORLIZA BINTI BUDIMAN|||||||OPEN
TQ1|0|||||30^M|20090112090000|20090112110000
TQ1|1|||||30^M|20090112150000|20090112170000
TQ1|2|||||30^M|20090113080000|20090113130000
TQ1|3|||||30^M|20090113140000|20090113170000
TQ1|4|||||30^M|20090114090000|20090114100000
TQ1|5|||||30^M|20090114110000|20090114130000
TQ1|6|||||30^M|20090114140000|20090114150000
TQ1|7|||||30^M|20090114160000|20090114170000
TQ1|8|||||30^M|20090115080000|20090115090000
TQ1|9|||||30^M|20090115110000|20090115130000
TQ1|10|||||30^M|20090115140000|20090115170000
TQ1|11|||||30^M|20090116090000|20090116120000
TQ1|12|||||30^M|20090116140000|20090116160000
RGS|0
AIS|0||DRU^BREAST ENDOCRINE AND METABOLIC SURGERY

MSH|^~\&|IEKKM|PlacerFacility|IEKKM|FillerFacility|20090110052620|1003800|ACK|20090110052620|P|2.5|||AL
MSA|CA|20090110052620



10.5 SBK-QUERY BOOKED SLOT WITH SPECIFIC PATIENT, SPECIFIC SERVICE & SECIFIC DATE RANGE

MSH|^~\&|IEKKM|PlacerFacility|IEKKM|FillerFacility|20090110172713|1003800|SQM^S25^SQM_S25|20090110172713|P|2.5|||AL
QRD|20090110172713|R|D|CNC-QRD-01|||2^RD&Records|990119099999^&&Mohd Syariff Akmal Bin Mohd Iqbal Shah|SBK
QRF|DRU|||||^^^20090112080000^20090116173000

MSH|^~\&|IEKKM|FillerFacility|IEKKM|PlacerFacility|20090110052713|1003800|ACK|20090110172713|P|2.5|||AL
MSA|CA|20090110172713

MSH|^~\&|IEKKM|FillerFacility|IEKKM|PlacerFacility|20090110052733|1003800|SQR^S25^SQR_S25|20090110052733|P|2.5|||AL
QAK|CNC-QRD-01|OK
SCH||FL_CNC20090110052733.0|||||^^&&CIK NORLIZA BINTI BUDIMAN|||||BOOKED
TQ1|0|||||30^M|20090112080000|20090112090000
TQ1|1|||||30^M|20090114100000|20090114110000
TQ1|2|||||30^M|20090115090000|20090115100000
PID|||990119099999~CNC000012||&&Mohd Syariff Akmal Bin Mohd Iqbal Shah||990119|L||0100^MELAYU|NO.14 JALAN PEMATA INDAH&TAMAN
INDAH PERMAI^^SERI KEMBANGAN^SELANGOR^43300^^C||^CP^^^+60122051468~^^PH^^^+60389412981|||1^SINGLE|||||
MYS^MALAYSIA
RGS|0
AIS|0||DRU^BREAST ENDOCRINE AND METABOLIC SURGERY

MSH|^~\&|IEKKM|PlacerFacility|IEKKM|FillerFacility|20090110052733|1003800|ACK|20090110052733|P|2.5|||AL
MSA|CA|20090110052733



10.6 SBK-QUERY BOOKED SLOT WITH SPECIFIC PATIENT & SECIFIC DATE RANGE

MSH|^~\&|IEKKM|PlacerFacility|IEKKM|FillerFacility|20090110172841|1003800|SQM^S25^SQM_S25|20090110172841|P|2.5|||AL
QRD|20090110172841|R|D|CNC-QRD-01|||2^RD&Records|990119099999^&&Mohd Syariff Akmal Bin Mohd Iqbal Shah|SBK
QRF|||||||^^^20090112080000^20090116173000

MSH|^~\&|IEKKM|FillerFacility|IEKKM|PlacerFacility|20090110052841|1003800|ACK|20090110172841|P|2.5|||AL
MSA|CA|20090110172841

MSH|^~\&|IEKKM|FillerFacility|IEKKM|PlacerFacility|20090110052912|1003800|SQR^S25^SQR_S25|20090110052912|P|2.5|||AL
QAK|CNC-QRD-01|OK
SCH||FL_CNC20090110052912.0|||||||^^&&CIK NORLIZA BINTI BUDIMAN|||||||BOOKED
TQ1|0|||||30^M|20090112080000|20090112090000
TQ1|1|||||30^M|20090114100000|20090114110000
TQ1|2|||||30^M|20090115090000|20090115100000
PID|||990119099999~CNC000012||&&Mohd Syariff Akmal Bin Mohd Iqbal Shah||990119|L||0100^MELAYU|NO.14 JALAN PEMATA INDAH&TAMAN
INDAH PERMAI^^SERI KEMBANGAN^SELANGOR^43300^^C|^^CP^^^^^^^^^^+60122051468~^^PH^^^^^^^^^^+60389412981|||1^SINGLE|||||||
MYS^MALAYSIA
RGS|0
AIS|0||DRU^BREAST ENDOCRINE AND METABOLIC SURGERY
SCH||FL_CNC20090110052912.1|||||||^^&&CIK NORLIZA BINTI BUDIMAN|||||||BOOKED
TQ1|0|||||30^M|20090112140000|20090112150000
TQ1|1|||||30^M|20090114150000|20090114160000
TQ1|2|||||30^M|20090116120000|20090116130000
PID|||990119099999~CNC000012||&&Mohd Syariff Akmal Bin Mohd Iqbal Shah||990119|L||0100^MELAYU|NO.14 JALAN PEMATA INDAH&TAMAN
INDAH PERMAI^^SERI KEMBANGAN^SELANGOR^43300^^C|^^CP^^^^^^^^^^+60122051468~^^PH^^^^^^^^^^+60389412981|||1^SINGLE|||||||
MYS^MALAYSIA
RGS|0
AIS|1||CTS^CARDIOTHORACIC SURGERY

MSH|^~\&|IEKKM|PlacerFacility|IEKKM|FillerFacility|20090110052912|1003800|ACK|20090110052912|P|2.5|||AL
MSA|CA|20090110052912



10.7 SBK-QUERY BOOKED SLOT WITH SPECIFIC SERVICE FOR ALL PATIENT & SECIFIC DATE RANGE

MSH|^~\&|IEKKM|PlacerFacility|IEKKM|FillerFacility|20090110173031|1003800|SQM^S25^SQM_S25|20090110173031|P|2.5|||AL
QRD|20090110173031|R|D|CNC-QRD-01|||2^RD&Records||SBK
QRF|DRU|||||||^^^20090112080000^20090116173000

MSH|^~\&|IEKKM|FillerFacility|IEKKM|PlacerFacility|20090110053031|1003800|ACK|20090110173031|P|2.5|||AL
MSA|CA|20090110173031

MSH|^~\&|IEKKM|FillerFacility|IEKKM|PlacerFacility|20090110053057|1003800|SQR^S25^SQR_S25|20090110053057|P|2.5|||AL
QAK|CNC-QRD-01|OK
SCH||FL_CNC20090110053057.0|||||||^^&&CIK NORLIZA BINTI BUDIMAN|||||||BOOKED
TQ1|0|||||30^M|20090112080000|20090112090000
TQ1|1|||||30^M|20090114100000|20090114110000
TQ1|2|||||30^M|20090115090000|20090115100000
PID||990929099999~CNC000012||&&MUHAMMAD AIDIL AKMAL BIN MOHD ASFAR||19990919000000|L||0100^MELAYU|NO.14 JALAN PEMATA
INDAH&TAMAN INDAH PERMAI^^SERI KEMBANGAN^SELANGOR^43300^^C||^CP^^^^^^^^^^+60122051468~^^PH^^^^^^^^^^+60389412981|||1^SINGLE
|||||||MYS^MALAYSIA
RGS|0
AIS|0||DRU^BREAST ENDOCRINE AND METABOLIC SURGERY

MSH|^~\&|IEKKM|PlacerFacility|IEKKM|FillerFacility|20090110053057|1003800|ACK|20090110053057|P|2.5|||AL
MSA|CA|20090110053057



10.8 QUERY BLOCKED SLOT WITH SECIFIC DATE RANGE

MSH|^~\&|IEKKM|PlacerFacility|IEKKM|FillerFacility|20090110173734|1003800|SQM^S25^SQM_S25|20090110173734|P|2.5|||AL
QRD|20090110173734|R|D|CNC-QRD-01|||2^RD&Records||SBL
QRF|||||||^^^20090112080000^20090116173000

MSH|^~\&|IEKKM|FillerFacility|IEKKM|PlacerFacility|20090110053734|1003800|ACK|20090110173734|P|2.5|||AL
MSA|CA|20090110173734

MSH|^~\&|IEKKM|FillerFacility|IEKKM|PlacerFacility|20090110053737|1003800|SQR^S25^SQR_S25|20090110053737|P|2.5|||AL
QAK|CNC-QRD-01|OK
SCH|FL_CNC20090110053737.0|||||||^^&&CIK NORLIZA BINTI BUDIMAN|||||||BLOCKED
TQ1|0|||||30^M|20090112130000|20090112140000
TQ1|1|||||30^M|20090113130000|20090113140000
TQ1|2|||||30^M|20090114130000|20090114140000
TQ1|3|||||30^M|20090115130000|20090115140000
TQ1|4|||||30^M|20090116130000|20090116140000
RGS|0

MSH|^~\&|IEKKM|PlacerFacility|IEKKM|FillerFacility|20090110053737|1003800|ACK|20090110053737|P|2.5|||AL
MSA|CA|20090110053737



10.9 SOP-QUERY OPEN SLOT WITH SECIFIC DATE RANGE

MSH|^~\&|IEKKM|PlacerFacility|IEKKM|FillerFacility|20090110175114|1003800|SQM^S25^SQM_S25|20090110175114|P|2.5|||AL
QRD|20090110175114|R|D|CNC-QRD-01|||2^RD&Records||SOP
QRF|||||||^20090112080000^20090116173000

OUT GOING MESSAGE

MSH|^~\&|IEKKM|FillerFacility|IEKKM||20090110055114|1003800|ACK|20090110175114|P|2.5|||AL
MSA|CA|20090110175114

MSH|^~\&|IEKKM|FillerFacility|IEKKM|PlacerFacility|20090110055119|1003800|SQR^S25^SQR_S25|20090110055119|P|2.5|||AL
QAK|CNC-QRD-01|OK

SCH||FL_CNC20090110055119.0|||||||^&&CIK NORLIZA BINTI BUDIMAN|||||||OPEN

TQ1|0|||||30^M|20090112090000|20090112110000
TQ1|1|||||30^M|20090112150000|20090112170000
TQ1|2|||||30^M|20090113080000|20090113130000
TQ1|3|||||30^M|20090113140000|20090113170000
TQ1|4|||||30^M|20090114090000|20090114100000
TQ1|5|||||30^M|20090114110000|20090114130000
TQ1|6|||||30^M|20090114140000|20090114150000
TQ1|7|||||30^M|20090114160000|20090114170000
TQ1|8|||||30^M|20090115080000|20090115090000
TQ1|9|||||30^M|20090115110000|20090115130000
TQ1|10|||||30^M|20090115140000|20090115170000
TQ1|11|||||30^M|20090116090000|20090116120000
TQ1|12|||||30^M|20090116140000|20090116160000
RGS|0

AIS|0||DRU^BREAST ENDOCRINE AND METABOLIC SURGERY

SCH||FL_CNC20090110055119.1|||||||^&&CIK NORLIZA BINTI BUDIMAN|||||||OPEN

TQ1|0|||||30^M|20090112090000|20090112110000
TQ1|1|||||30^M|20090112150000|20090112170000
TQ1|2|||||30^M|20090113080000|20090113130000



TQ1|3|||||30^M|20090113140000|20090113170000
TQ1|4|||||30^M|20090114090000|20090114100000
TQ1|5|||||30^M|20090114110000|20090114130000
TQ1|6|||||30^M|20090114140000|20090114150000
TQ1|7|||||30^M|20090114160000|20090114170000
TQ1|8|||||30^M|20090115080000|20090115090000
TQ1|9|||||30^M|20090115110000|20090115130000
TQ1|10|||||30^M|20090115140000|20090115170000
TQ1|11|||||30^M|20090116090000|20090116120000
TQ1|12|||||30^M|20090116140000|20090116160000

RGS|0

AIS|1||CTS^CARDIOTHORACIC SURGERY

SCH|FL_CNC20090110055119.2|||||||||^&&CIK NORLIZA BINTI BUDIMAN|||||||OPEN

TQ1|0|||||30^M|20090112090000|20090112110000
TQ1|1|||||30^M|20090112150000|20090112170000
TQ1|2|||||30^M|20090113080000|20090113130000
TQ1|3|||||30^M|20090113140000|20090113170000
TQ1|4|||||30^M|20090114090000|20090114100000
TQ1|5|||||30^M|20090114110000|20090114130000
TQ1|6|||||30^M|20090114140000|20090114150000
TQ1|7|||||30^M|20090114160000|20090114170000
TQ1|8|||||30^M|20090115080000|20090115090000
TQ1|9|||||30^M|20090115110000|20090115130000
TQ1|10|||||30^M|20090115140000|20090115170000
TQ1|11|||||30^M|20090116090000|20090116120000
TQ1|12|||||30^M|20090116140000|20090116160000

RGS|0

AIS|2||DER^DEMATOLOGY

SCH|FL_CNC20090110055119.3|||||||||^&&CIK NORLIZA BINTI BUDIMAN|||||||OPEN

TQ1|0|||||30^M|20090112090000|20090112110000
TQ1|1|||||30^M|20090112150000|20090112170000
TQ1|2|||||30^M|20090113080000|20090113130000



TQ1|3|||30^M|20090113140000|20090113170000
TQ1|4|||30^M|20090114090000|20090114100000
TQ1|5|||30^M|20090114110000|20090114130000
TQ1|6|||30^M|20090114140000|20090114150000
TQ1|7|||30^M|20090114160000|20090114170000
TQ1|8|||30^M|20090115080000|20090115090000
TQ1|9|||30^M|20090115110000|20090115130000
TQ1|10|||30^M|20090115140000|20090115170000
TQ1|11|||30^M|20090116090000|20090116120000
TQ1|12|||30^M|20090116140000|20090116160000

RGS|0

AIS|3||FORM^FORENSIC-MORTUARY

SCH|FL_CNC20090110055119.4|||||||&&CIK NORLIZA BINTI BUDIMAN|||||||OPEN

TQ1|0|||30^M|20090112090000|20090112110000
TQ1|1|||30^M|20090112150000|20090112170000
TQ1|2|||30^M|20090113080000|20090113130000
TQ1|3|||30^M|20090113140000|20090113170000
TQ1|4|||30^M|20090114090000|20090114100000
TQ1|5|||30^M|20090114110000|20090114130000
TQ1|6|||30^M|20090114140000|20090114150000
TQ1|7|||30^M|20090114160000|20090114170000
TQ1|8|||30^M|20090115080000|20090115090000
TQ1|9|||30^M|20090115110000|20090115130000
TQ1|10|||30^M|20090115140000|20090115170000
TQ1|11|||30^M|20090116090000|20090116120000
TQ1|12|||30^M|20090116140000|20090116160000

RGS|0

AIS|4||SUR^GENERAL SURGERY

MSH|^~\&|IEKKM|PlacerFacility|IEKKM|FillerFacility|20090110055119|1003800|ACK|20090110055119|P|2.5|||AL
MSA|CA|20090110055119

