

EMC Phase 3 - Generic IRD command reference guide for SMS

Date	Comment
31/03/2005	samples of IRD commands, the exemples are referenced in the cmd matrix v3.5. Please note that the exemples point to a given STB model. It is either ADB or P3 STB. P3 STB means a STB that is fully compliant with EMC phase 3.

References:

- [1] EMC – IRD commands definition – 1.0.0 for ADB STB
- [2] EMC – IRD commands specification – 1.3.16e for Phase 3 (P3) compliant STB

List of commands:

1.1 Set Network ID (ADB STB).....	2
1.2 Set Network ID (P3 STB)	3
2.1 Set Pin Code (ADB STB)	4
2.2 Set Parental Pin Code (P3 STB)	5
2.3 Reset Parental Pin Code (P3 STB).....	6
2.4 Set PIN code for IPPV purchase (P3 STB).....	7
2.5 Reset PIN code for IPPV purchase (P3 STB).....	8
3.1 Force Tune (P3 STB).....	9
4.1 Mail (P3 STB).....	10
5.1 Master/Slave Continuous Mode Initialization (P3 STB)	11
5.2 Master/Slave Cancellation (P3 STB)	12
5.3 Master/Slave Single Shot (P3 STB).....	13

1.1 Set Network ID (ADB STB)

CommandHeader = 00900000201000100020000320050324

```
Field1: 009000002  ---> TransactionNumber
Field2: 01          ---> CommandType = EMM
Field3: 0001        ---> Source_ID
Field4: 0002        ---> Dest_ID
Field5: 00003       ---> MOP_PPID
Field6: 20050324    ---> Creation_date
```

CommandSection = N2005032320050325U07000000001

Field1:	N	---	Normal (Standard broadcasting mode)
Field2:	20050323	---	Boardcast Start Date
Field3:	20050325	---	Boardcast End Date
Field4:	U	---	Unique (EMM addressing mode for EMM command)
Field5:	0700000001	---	The Unique Address of Card

CommandBody =

[illegible]

```
Field1: 0069      ---> SMS Command ID
Field2: 194       ---> IRD_command_id  0xC2
Field3: 001       ---> IRD_Operation
Field4: 16        ---> IRD_data_length
```

[illegible]

```
---> IRD_data ( set network id to 0x0B02
                  original network id to 0xF041 )
```

1.2 Set Network ID (P3 STB)

CommandHeader = 00900000201000100020000320050324

```
Field1: 009000002  ---> TransactionNumber
Field2: 01         ---> CommandType = EMM
Field3: 0001       ---> Source_ID
Field4: 0002       ---> Dest_ID
Field5: 00003      ---> MOP_PPID
Field6: 20050324   ---> Creation_date
```

CommandSection = N2005032320050325U07000000001

Field1:	N	---	Normal (Standard broadcasting mode)
Field2:	20050323	---	Boardcast Start Date
Field3:	20050325	---	Boardcast End Date
Field4:	U	---	Unique (EMM addressing mode for EMM command)
Field5:	0700000001	---	The Unique Address of Card

CommandBody =

[illegible]

```
Field1: 0069      ---> SMS Command ID
Field2: 198       ---> IRD_command_id  0xC6
Field3: 001       ---> IRD_Operation
Field4: 16        ---> IRD_data_length
```

[illegible]

```
---> IRD_data ( set network id to 0x0B02
                  original network id to 0xF041 )
```



```
Field5: 4852484848000000000000000000000000000000000000000000000000000000  
0000000000000000000000000000000000000000000000000000000000000000  
---> IRD_data ( ird_data value set to '0000' )
```

[illegible]

```
Field5: 4852484848000000000000000000000000000000000000000000000  
00000000000000000000000000000000000000000000000000000000000000  
---> IRD_data ( set IPPV purchase Pin Code to 0000 )
```


3.1 Force Tune (P3 STB)

CommandHeader = 00900000101000100020000320050324

```
Field1: 009000001  ---> TransactionNumber
Field2: 01          ---> CommandType = EMM
Field3: 0001        ---> Source_ID
Field4: 0002        ---> Dest_ID
Field5: 00003       ---> MOP_PPID
Field6: 20050324    ---> Creation_date
```

CommandSection = N2005032320050325U0700000001

Field1:	N	---	Normal (Standard broadcasting mode)
Field2:	20050323	---	Boardcast Start Date
Field3:	20050325	---	Boardcast End Date
Field4:	U	---	Unique (EMM addressing mode for EMM command)
Field5:	0700000001	---	The Unique Address of Card

CommandBody =

[illegible]

```
Field1: 0069      ---> SMS Command ID
Field2: 193       ---> IRD_command_id = 0xC1
Field3: 001       ---> IRD_Operation
Field4: 24        ---> IRD_data_length
Field5: 48664850484849654848705100000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
---> IRD_data ( network_id = 0x0B02
                  transport_id = 0x001A
                  service_id = 0x00F3 )
```

4.1 Mail (P3 STB)

CommandHeader = 00900000201000100020000320050324

Field1:	009000002	--->	TransactionNumber
Field2:	01	--->	CommandType = EMM
Field3:	0001	--->	Source_ID
Field4:	0002	--->	Dest_ID
Field5:	00003	--->	MOP_PPID
Field6:	20050324	--->	Creation_date

CommandSection = N2005032320050325U0700000001

Field1:	N	--->	Normal (Standard broadcasting mode)
Field2:	20050323	--->	Boardcast Start Date
Field3:	20050325	--->	Boardcast End Date
Field4:	U	--->	Unique (EMM addressing mode for EMM command)
Field5:	0700000001	--->	The Unique Address of Card

CommandBody =

006919200188484856494848535254535551555254535452504852505557504852515449545
054675453535154705454555200000000

Field1:	0069	--->	SMS Command ID
Field2:	192	--->	IRD_command_id = 0xC0
Field3:	001	--->	IRD_Operation
Field4:	88	--->	IRD_data_length
Field5:	48485649484853525453555155525453545250485250555750485251544 9545054675453535154705454555200000000		

---> IRD_data (mail_id = 2 (b2:0000000010),
total_segment = 1 (b2:000001),
priority = 0 (b2:00),
segment nb = 0 (b2:000000),

b2:00000000 10000001 00000000 0x008100

message = 'Tested By CableSoft' 0x
0x 54 65 73 74 65 64 20 42 79 20 43 61 62 6C 65 53 6F 66 74)

```
----> IRD_data ( masterSmartcard = 0x29B92764 (i.e 0700000100),
                validationPeriod = 0x07 (i.e. 7 days),
                randomPeriod = 0x02 (i.e. 2 days),
                timeout = 0x18 (i.e. 24 hours )
```

5.2 Master/Slave Cancellation (P3 STB)

CommandHeader = 00900000601000100020000320050324

```
Field1: 009000006  ---> TransactionNumber
Field2: 01          ---> CommandType = EMM
Field3: 0001        ---> Source_ID
Field4: 0002        ---> Dest_ID
Field5: 00003       ---> MOP_PPID
Field6: 20050324    ---> Creation_date
```

CommandSection = N2005032320050325U07000000001

Field1:	N	--->	Normal (Standard broadcasting mode)
Field2:	20050323	--->	Boardcast Start Date
Field3:	20050325	--->	Boardcast End Date
Field4:	U	--->	Unique (EMM addressing mode for EMM command)
Field5:	0700000001	--->	The Unique Address of Card

CommandBody =

[illegible]

```
Field1: 0069      ---> SMS Command ID
Field2: 199       ---> IRD_command_id = 0xC7
Field3: 002       ---> IRD_Operation
Field4: 00        ---> IRD_data_length
```

[illegible]

```
---> IRD_data ( no value )
```

5.3 Master/Slave Single Shot (P3 STB)

CommandHeader = 00900000701000100020000320050324

```
Field1: 009000007    ---> TransactionNumber
Field2: 01           ---> CommandType = EMM
Field3: 0001         ---> Source_ID
Field4: 0002         ---> Dest_ID
Field5: 00003        ---> MOP_PPID
Field6: 20050324     ---> Creation_date
```

CommandSection = N2005032320050325U0700000003

Field1:	N	---	Normal (Standard broadcasting mode)
Field2:	20050323	---	Boardcast Start Date
Field3:	20050325	---	Boardcast End Date
Field4:	U	---	Unique (EMM addressing mode for EMM command)
Field5:	0700000003	---	The Unique Address of Card

CommandBody =

[illegible]

```
Field1: 0069      ---> SMS Command ID
Field2: 199       ---> IRD_command_id = 0xC7
Field3: 003       ---> IRD_Operation
Field4: 20        ---> IRD_data_length
```

[illegible]

```
---> IRD_data ( masterSmartcard = 0x29B92764 (i.e 0700000100),
               timeout = 0x04 (i.e. 4 hours )
```

[END OF DOCUMENT]