

# SDS100/200 FILE SPECIFICATION

BUYER'S MODEL : SDS100/200

VERSION No. : 1.03  
ISSUED DATE : 2019/01/18  
CATEGORY : SCN

**Uniden<sup>®</sup>** Holdings Corporation

APRVD	CHECKED (S)	ISSUED

## ■ Revision

Ver	Date	Description
0.01		draft
1.02		appended "Site NAC Operation" in GlobalSetting.
1.03	Jan. 18, 2019	Append Global Auto Filter and Filter

# microSD directory image

```
\ root
+ \ BCDx36HP
  |
  | scanner.inf   Scanner Information (Ex.ESN,ModelName...)
  |
  | profile.cfg   Profile(owner's info,wx,location,...) and Limit Search
  |
  | discvery.cfg  Conventional and Trunking Discovery
  |
  | app_data.cfg  Scanner settings data which scanner reads when scanner resumes last mode.
  |               PC application must delete this file, when it writes program data to scanner.
+ \ audio
  |
  | + \inner_rec
  |   | YYYY-MM-DD_hh-mm-ss.wav
  |   |
  |   + \user_rec
  |     | hexadecimal time stamp name
  |     + \XXXXXXXX
  |       | YYYY-MM-DD_hh-mm-ss.wav
  |       | YYYY-MM-DD_hh-mm-ss.wav
  |     + \XXXXXXXX
  |       | YYYY-MM-DD_hh-mm-ss.wav
  |       | YYYY-MM-DD_hh-mm-ss.wav
  |       | YYYY-MM-DD_hh-mm-ss.wav
+ \ alert
  | YYYY-MM-DD_hh-mm-ss.wav
  | YYYY-MM-DD_hh-mm-ss.wav
  | YYYY-MM-DD_hh-mm-ss.wav
+ \favorites_lists
  | f_list.cfg
  | f_000001.hpd
  | f_000002.hpd
  | f_000003.hpd
+ \firmware
  | BCD536HP_Vx_xx_xx.scn
  | BCD436HP_Vx_xx_xx.scn
  | ZipTable_Vx_xx_xx.dat
  | CityTable_Vx_xx_xx.dat
+ \HPDB
  | hpdb.cfg
  | State, County list, Locate me info
```

hh: hour, mm: minute, ss: second  
DD: date, MM: month, YYYY: year  
File/Sub-directory name is start

favorites\_lists  
f\_list.cfg  
f\_000001.hpd  
f\_000002.hpd  
f\_000003.hpd

favorites\_XXXXXX.hpd  
(XXXXXX = 000001-999999)  
The name of file is managed by  
favorite\_list.config.

Download from Sentinel

s\_000000.avd            avoid list (each state)  
s\_000001.avd  
s\_000002.avd  
:  
:  
s\_000113.avd  
s\_000181.avd

s\_000000.hpd            Scan channel (each state)  
s\_000001.hpd  
s\_000002.hpd  
:  
:  
s\_000113.hpd  
s\_000181.hpd

+ \discovery

+ \Conventional

+ Session0001\_Run0001

|    |    summary.log  
|    |    detail.log

+ \25000000\_AM\_None

|    |    ss-mm-hh\_DD-MM-YYYY.wav  
|    |    ss-mm-hh\_DD-MM-YYYY.wav  
|    |    ss-mm-hh\_DD-MM-YYYY.wav

+ \225000000\_FM\_C100.0

|    |    ss-mm-hh\_DD-MM-YYYY.wav

+ \225000000\_NFM\_D023

+ \851012500\_NFM\_NFF

+ Session0001\_Run0002

+ Session0001\_Run0003

+ Session0001\_Run0004

+ Session0001\_Run0005

+ Session0002\_Run0001

+ Session0002\_Run0001

+ \Trunk

+ Session0001\_Run0001

|    |    summary.log  
|    |    detail.log

+ \125\_A

|    |    ss-mm-hh\_DD-MM-YYYY.wav

+ \65535\_A

+ Session0002\_Run0001

+ \activity\_log

| YYYY-MM-DD\_hh-mm-ss\_SystemName.log  
| YYYY-MM-DD\_hh-mm-ss\_SystemName.log  
| YYYY-MM-DD\_hh-mm-ss\_SystemName.log  
| YYYY-MM-DD\_hh-mm-ss\_SystemName.log

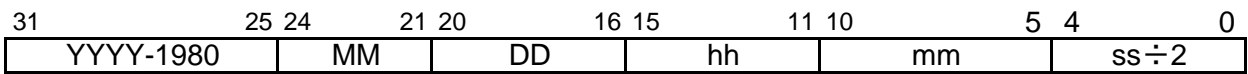
¥Sessionxxxx is Session name.

each channel.  
Frequency+Modulation+CTCSS/DCS/NAC/ColorCode/RAN/Area.

```
| YYYY-MM-DD_hh-mm-ss_SystemName.log
| YYYY-MM-DD_hh-mm-ss_SystemName.log
```

If system name include '¥', '/', ':', '\*', '?', '¥', '<', '>', '|', those character are convert to '\_'  
 If file name overs 64 characters, it is cut 64 characters.

**【hexadecimal time stamp name format】**



The sub folder name of user\_rec is hexadecimal time stamp name format.  
 It's possible to converting hexadecimal time stamp to "YYYY-MM-SS\_mm\_dd\_ss" format.

Ex.  
 4D786CA  
 -> 2018-11-24\_13-37-24

**【convert function sample source (C)】**

```
void convert_dir_name(char *buff, const char *source_name)
{
    unsigned long year, month, day;
    unsigned long hour, minute, second;
    unsigned long fat_time = strtol(source_name, NULL, 10);

    year = ((fat_time>>25) & 0x7f) + 1980;
    month = (fat_time>>21) & 0xf;
    day = (fat_time>>16) & 0x1f;
    hour = (fat_time>>11) & 0x1f;
    minute = (fat_time>>5) & 0x3f;
    second = (fat_time<<1) & 0x3f;

    sprintf(buff, "%04d-%02d-%02d_%02d-%02d-%02d",
            year, month, day,
            hour, minute, second );
}
```

## Basic Rule

HomePatrol data file is described Encode=ASCII.  
One line has One sentence.  
One sentence has one command and several parameters.

A mark to divide command and parameter is Tab(/t)

The parameter be divided into multi parts.  
A mark to divide into multi parts is "=", "/", or ",".

All HomePatrol data file has the following information.

- Target Model name
- File type
- File format version

## Rule each parameter

### MyId/ParentId

HPDB's each resource has self and parent's ID.  
ID is displayed xxId=xx

e.x.

CountyId=5  
AgencyId=15

ID system list

description	HPDB ID
Country	CountryId
State	StateId
County	CountyId
Agency	AgencyId
Trunk System	TrunkId
cats	---
subcat	CGroupId
Conventional Frequency	CFreqId
Trunk Site	SiteId
Trunk Frequency	TFreqId
Talk Group ID Group	TGroupId
Talk Group ID Chanle	Tid

The scanner doesn't use RRDB ID

The hpd file which is Favorites List doesn't need MyId/ParentId.  
just space

### Name tag

Only 0x20-7E  
MAX 64 lengths

### Frequency / Step

1 = 1Hz

ex

851.0125MHz  
⇒851012500

6.25KHz  
⇒6250

### Latitude/Longitude

Use DEGREE format  
Up to the sixth decimal point figure

### Time stamp

“MM/DD/YYYY hh:mm:ss” format

### TGID

## MOTOROLA TYPE I

- (1) BFF-SS Normal ID  
B is 1 digit  
FF should be 2 digits (0 filling)  
SS is 1-2 digit(s)
- (2) BFFF-S Normal ID (when FLEET is 100-127)  
B is 1 digit  
FFF is 3 digits  
S is 1 digit
- (3) B- Partial ID (free FLEET and SUB-FLEET)  
B is 1 digit
- (4) BFF- Partial ID (fleet SUB-FLEET)  
B is 1 digit  
FF should be 2 digits (0 filling)
- (5) BFFF- Partial ID (fleet SUB-FLEET when FLEET is 100-127)  
B is 1 digit  
FFF is 3 digits
- (6) NNNNN Normal ID when SIZE CODE is 0  
N is 1-5 digit(s)
- (7) iNNNNN I-CALL ID  
N is 1-5 digit(s)

TYPE I format is no check.

## MOTOROLA TYPE II

- (1) Normal ID  
NNNNN ( NNNNN is 1-5 digit(s), 1-65535 )
- (2) I-CALL ID  
iNNNNN ( NNNNN is 1-5 digit(s), i0-i65535 )

## P25

- (1) Normal ID  
NNNNN ( NNNNN is 1-5 digit(s),1-65535 )
- (2) I-CALL ID  
iNNNNNNNN (NNNNNNNN is 1-8 digit(s),i0-i16777215)

Note

P25 format cannot support PARTIAL ID.

## DMR/MotoTRBO

- (1) Normal ID  
NNNNNNNN ( NNNNNNNN is 1-8 digit(s), 1-16777215 )
- (2) I-CALL ID  
iNNNNNNNN ( NNNNNNNN is 1-8 digit(s), i0-i16777215)

Note

DMR format cannot support PARTIAL ID.

## NXDN

- (1) Normal ID  
NNNNN ( NNNNN is 1-5 digit(s), 0-65535)
- (2) I-CALL ID  
iNNNNN ( NNNNN is 1-5 digit(s), i0-i65535)

Note

NXDN does not support PARTIAL ID.

## EDACS

- (1) Normal ID  
AA-FFS ( decimal 1-2,047 )
- (2) Partial ID (free FLEET and SUB-FLEET)  
AA----
- (3) Partial ID (free SUB-FLEET)  
AA-FF-  
AA : AGENCY 2digits (00-15) / (0 filling)  
FF : FLEET 2digits (00-15) / (0 filling)  
S : SUB-FLEET 1digit (0-7)  
\*ALL0(00-00-0) is invalid
- (4) I-CALL ID  
iNNNNNN ( NNNNNN is 1-7 digit(s) i0-i1048575 )
- (5) EA (Extend Addressing) System  
NNNNN ( NNNNN is 1-5 digit(s), 2,048-65,535 )

## LTR

- (1) Normal ID  
A-RR-NNN
- (2) Partial ID  
A-RR----  
A : AREA CODE 1digit (0 or 1)  
RR : HOME REPEATER 2digit (01-20) / (0 filling)  
NNN : ID 3digit (000-254) / (0 filling)

Note

LTR System has no I-CALL ID.

### Alert Tone Type (Alert Type)

Parameters are following:

Off / 1 / ... / 9

### Alert Tone Volume (Alert Volume)

Parameters are following:

Auto/1/.../15



**Alert Light Color (Light Color)**

Parameters are following:

- Off
- Blue
- Red
- Magenta
- Green
- Cyan
- Yellow
- White

**Alert Light Pattern (Light Pattern)**

Parameters are following:

- On
- Slow Blink
- Fast Blink

**Digital Waiting Time**

0-1000

1 means 1ms.

**Digital Threshold Mode**

Parameters are following:

- Auto
- Manual
- Default

**Digital Threshold Level**

5-13

---

[TargetMode]

---

Description :

Show target model name

Format :

TargetModel	ModelName
-------------	-----------

Parameter :

ModelName 

BCDx36HP
----------

Note :

cannot omit

BCD436HP/BCD536HP set "BCDx36HP"

---

[FormatVersion]

---

Description :

Show file format version

Format :

FormatVersion	Version
---------------	---------

Parameter :

Version

x.xx

Note :

cannot omit

# \*.hpd

is parameter which Favorites List doesn't need. It is just null.

is parameter which HPDB doesn't need. It is just null.

is parameter which user inputs doesn't need. It is just null. In favorites list this on need.

---

## [Conventional]

---

Description :

Conventional System Parameter

Format :

Conventional	MyId	ParentId	Name Tag	Avoid	Reserve	System Type	->>
	->>	Quick Key	Number tag	System Hold Time	Analog AGC	Digital AGC	->>
	->>	Digital Waiting Time	Digital Threshold Mode	Digital Threshold Level			

Parameter :

MyId  
CountyId=xx  
AgencyId=xx  
ParentId  
StateId=xx  
Name Tag  
Name Tag  
Avoid  
On/Off  
System Type  
Quick Key  
Off/0-99  
Number tag  
Off/0-99  
System Hold Time  
0-255  
Analog AGC  
Off/On  
Digital AGC  
Off/On  
Digital Waiting Time  
0-1000  
Digital Threshold Mode  
Auto, Manual, Default  
Digital Threshold Level  
5-13

Note :

In HPDB, avoid parameter is always Off. It is managed by \*.avoid file.

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## [Trunk]

---

Description :

Trunked System Parameter

Format :

Trunk	MyId	ParentId	Name Tag	Avoid	Reserve	System Type	->>
	->>	ID Search	Alert Tone	Alert Volume	Status Bit	Reserve(NAC)	->>
	->>	Quick Key	Number tag	Site Hold Time	Analog AGC	Digital AGC	->>
	->>	End Code	Priority ID Scan	Alert Color	Alert Pattern	TGID Format	

Parameter :

MyId  
TrunkId=xx  
ParentId  
StateId=xx  
Name Tag  
ASCII character strings  
Avoid  
On/Off  
System Type  
Conventional

	Motorola	
	Edacs	
	Scat	(reserve parameter)
	Ltr	
	P25Standard	it is P25 Phase I & II
	P25OneFrequency	
	P25X2_TDMA	
	MotoTrbo	
	DmrOneFrequency	
	Nxdn	
	NxdnOneFrequency	
ID Search	Off/On	
Alert Tone	Off/0/1/.../9	Emergency Alert Tone
Alert Volume	Auto/1/.../15	
Status Bit	Yes/Ignore	
NAC	Srch/0-FFF	
Quick Key	Off/0-99	
Number tag	Off/0-99	
System Hold Time	0-255	
Analog AGC	Off/On	
Digital AGC	Off/On	
End Code	Analog/Analog+Digital/Ignore	
Priority ID Scan	Off/On	
Alert Color	Alert Light Color format.	
Alert Pattern	Alert Light Pattern format.	
TGID Format	NEXEDGE/IDAS	

Note :  
In HPDB, avoid parameter is always Off. It is managed by \*.avoid file.

[AreaState]

Description :  
State of System

Format :  

AreaState	MyId	StateId
-----------	------	---------

Parameter :  
MyId            CountyId/AgencyId/TrunkId=xx  
StateId

Note :  
Favorites List doesn't need AreaState sentence.

[AreaCounty]

Description :  
County of System

Format :  

AreaCounty	MyId	CountyId
------------	------	----------

Parameter :  
MyId            CountyId/AgencyId/TrunkId=xx  
CountyId

Note :  
Favorites List doesn't need AreaCountysentence.

## [FleetMap]

---

Description :

Format :

FleetMap	MyId	B0	B1	...	...	B6	B7
----------	------	----	----	-----	-----	----	----

Parameter :

MyId  
B0            0/1-9/A/B/C/D/E  
B1  
B2  
B3  
B4  
B5  
B6  
B7

Note :

If block size is all 0(TYPE 2)

---

## [UnitIds]

---

Description :

Format :

UnitIds	Reserve	Reserve	Name Tag	Unit ID	Alert Tone	Alert Value
->>	Alert Color	Alert Pattern				

->>

Parameter :

Name Tag     ASCII character strings  
Unit ID      1-16777215  
Alert Tone   Off/1-9  
Alert Value   Auto/1-15  
Alert Color   Alert Light Color format.  
Alert Pattern Alert Light Pattern format.

Note :

---

## [AvoidTgids]

---

Description :

Format :

AvoidTgids	MyId	TGID 1	TGID 2	...	TGID 16
------------	------	--------	--------	-----	---------

Parameter :

TGID n        TGID character strings  
  
              n : 1-16

Note :

If TGID is avoided on ID Search mode doesn't exist, AvoidTgids sentence isn't outputted \*.hpd file.  
If over 16 TGIDs are avoided on ID Search mode, 2 or more AvoidTgids sentence are outputted to \*.hpd file.

---

Site

---

Description :

Format :

Site	MyId	ParentId	Name Tag	Avoid	Latitude	Longitude	->>
		->>	Range	Modulation	Mot Band Type	Edacs Band Type	->>
		->>	Location Type	Attenuator	->>		
		->>	Digital Waiting Time	Digital Threshold Mode	Digital Threshold Level	Quick Key	->>
		->>	NAC	Filter			

Parameter :

MyId SiteId=xx  
 ParentId TrunkId=xx  
 Name Tag ASCII character strings  
 Avoid On/Off  
 Latitude According to basic rules.  
 Longitude According to basic rules.  
 Range 1=1mile, Up to the 1 decimal point figure.  
 Modulation AUTO  
 NFM  
 FM

Mot Band Type Standard  
 Sprinter  
 Custom

Edacs Band Type Wide  
 Narrow

Location Type Circle/Rectangles

Attenuator On/Off

Digital Waiting Time 0-1000

Digital Threshold Mode Auto, Manual, Default

Digital Threshold Level 5-13

Quick Key Off/0-99

NAC Srch/0-FFF

Filter Global/Normal/Invert/Auto

Note :

In HPDB, avoid parameter is always Off. It is managed by \*.avoid file.  
 If [Trunk] System Type isn't Motorola, Mot Band Type is set "Standard".  
 If [Trunk] System Type isn't Edacs, Edacs Band Type is set "Wide".

## Rectangle

Description :

Format :

Rectangle	MyId	Latitude 1	Longitude 1	Latitude 2	Longitude 2
-----------	------	------------	-------------	------------	-------------

Parameter :

MyId SiteId=xx, TGroupId=xx or CGroupId=xx  
 Latitude n According to basic rules.  
 Longitude n According to basic rules.

Note :

Rectangle sentence is addition information for Department or Site.

---

## BandPlan\_Mot

---

Description :

Motorola's Custom Band Plan parameter

Format :

BandPlan_Mot	MyId	Lower 0	Upper 0	Spacing 0	Offset 0	...
	->>	...	Lower 5	Upper 5	Spacing 5	Offset 5

->>

Parameter :

MyId            SiteId of Site  
Lower          Frequency format  
Upper          Frequency format  
Spacing        Frequency format

5000/6250/10000/12500/15000/18750/20000/25000/  
30000/31250/35000/37500/40000/43750/45000/50000/  
55000/56250/60000/62500/65000/68750/70000/75000/  
80000/81250/85000/87500/90000/93750/95000/100000  
(5k and 6.25K multiples. Up to 100K)

Offset        "-1023" - "1023"

Note :

[BandPlan\_Mot] is valid only Mot Band Type is CUSTOM.

---

## BandPlan\_P25

---

Description :

P25 Band plan

Format :

BandPlan_P25	MyId	Base 0	Spacing 0	Base 1	Spacing 1	...	
					...	Base F	Spacing F

Parameter :

MyId            SiteId  
Base 0          Band Plan 0 Base Frequency  
Spacing 0        Band Plan 0 Spacing Frequency  
Base 1          Band Plan 1 Base Frequency  
Spacing 1        Band Plan 1 Spacing Frequency  
:  
:  
Base F          Band Plan F Base Frequency  
Spacing F        Band Plan F Spacing Frequency

Base *n* :        Frequency format  
                 Refer to Band Coverage

Spacing *n* :     Frequency format (1 = 1Hz)  
                 Range  $0.125\text{kHz} \leq \text{Spacing} \leq 128.0000\text{kHz}$  per 125Hz

Note :

If Band Plan is undesignated, [BandPlan\_P25] is omissible.

---

## DQKs\_Status

---

Description :

Favorites List Quick Status

Format :

DQks_Status	MyId	D-Qkey_00	D-Qkey_01	D-Qkey_02	.....	D-Qkey_99
-------------	------	-----------	-----------	-----------	-------	-----------

Parameter :

D-Qkey\_xx      Off/On

Note :

[C-Group]

[T-Group]

Description :

Format :

C-Group	MyId	ParentId	Name Tag	Avoid	->>		
	->>	Latitude	Longitude	Range	Location Type	Quick Key	Filter

T-Group	MyId	ParentId	Name Tag	Avoid	->>		
	->>	Latitude	Longitude	Range	Location Type	Quick Key	

Parameter :

MyId            xxId=xx  
 ParentId        xxId=xx  
 Name Tag        ASCII character strings  
 Avoid            On/Off  
 Latitude  
 Longitude  
 Range  
 Location Type   Circle/Rectangles  
 Quick Key       Off/0-99  
 Filter           Global/Normal/Invert/Auto

Note :

In HPDB, avoid parameter is always Off. It is managed by \*.avoid file.  
 Filter is C-Group only.

[C-Freq]

Description :

Format :

C-Freq	MyId	ParentId	Name Tag	Avoid	Frequency	Modulation	->>
	->>	Audio Option	FuncTagId	Attenuator	Delay	Volume Offset	->>
	->>	Alert Tone	Alert Volume	Alert Color	Alert Pattern	->>	
	->>	Number tag	Priority Channel				

Parameter :

MyId            xxId=xx  
 ParentId        xxId=xx  
 Name Tag        ASCII character strings  
 Avoid            On/Off  
 Frequency        Frequency(1=1Hz)  
 Modulation       AUTO/AM/NFM/FM  
 Audio Option    null(All), Tone=xxxx, NAC=xxx, ColorCode=xx, RAN=xx, Area=x to see sheet "Sub Audio" for Detail.  
 FuncTagId       1-37,208-218  
 Attenuator       On/Off  
 Delay            30,10,5,4,3,2,1,0,-5,-10  
 Volume Offset   -3/-2/-1/0/1/2/3  
 Alert Tone       Off/1-9  
 Alert Volume    Auto/1-15



Alert Color Alert Light Color format.  
 Alert Pattern Alert Light Pattern format.  
 Number tag Off/0-999  
 Priority Channel Off/On

Note :  
 In HPDB, avoid parameter is always Off. It is managed by \*.avoid file.  
 According to "Service Type" sheet about FuncTagId number.

[TGID]

Description :

Format :

TGID	MyId	ParentId	Name Tag	Avoid	TGID	Audio Type
			->>	FuncTagId	Delay	Volume Offset
		->>	Alert Tone	Alert Volume	Alert Color	Alert Pattern
			->>	Number tag	Priority Channel	TDMA Slot

->>  
 ->>  
 ->>

Parameter :

MyId xxId=xx  
 ParentId xxId=xx  
 Name Tag ASCII character strings  
 Avoid On/Off  
 TGID TGID character strings  
 Audio Type ALL/ANALOG/DIGITAL  
 FuncTagId 1-37,208-218  
 Delay 30,10,5,4,3,2,1,0,-5,-10  
 Volume Offset -3/-2/-1/0/1/2/3  
 Alert Tone Off/1-9  
 Alert Volume Auto/1-15  
 Alert Color Alert Light Color format.  
 Alert Pattern Alert Light Pattern format.  
 Number tag Off/0-999  
 Priority Channel Off/On  
 TDMA Slot 1/2/Any

Note :  
 In HPDB, avoid parameter is always Off. It is managed by \*.avoid file.  
 According to "Service Type" sheet about FuncTagId number.

[T-Freq]

Description :

Format :

T-Freq	Reserve(MyId)	ParentId	Reserve	Reserve(Avoid)	Frequency	LCN	Color Code / RAN / Area
--------	---------------	----------	---------	----------------	-----------	-----	-------------------------

Parameter :

Reserve(MyId) xxId=xx  
 ParentId xxId=xx  
 Reserve  
 Reserve(Avoid) Off  
 Frequency Frequency(1=1Hz)  
 LCN number(0,1-30 / 1-20 / 1-4094 / 1-1023)  
 Color Code / RAN / Area 0-15, RAN=0-63, Area=0-1, Srch

Note :  
 Reserve(MyId) is always "TFreqId=0".  
 Reserve(Avoid) is always Off.

# Scanner.info

---

## Scanner

---

Description :

HomePatrol Information

Format :

Scanner	Model	ESN	F_Ver	R_Ver	Reserve	->>
->>	Zip_Ver	City_Ver	WiFi_Ver	SCPU_Ver		

Parameter :

Model	Model name
ESN	ESN
F_Ver	Firmware Version
R_Ver	Registry Version
Zip_Ver	zip table version
City_Ver	city table version
WiFi_Ver	WiFi Module version
SCPU_Ver	SUB CPU version

Note :

UB375Z Model = "BCD536HP"

# HPDB.config

---

## DateModified

---

Description :

HPDB Version (the generation time stamp)

Format :

DateModified      Time stamp

Parameter :

Time stamp

Note :

---

## StateInfo

---

Description :

State information

Format :

StateInfo      StateId      CountryId      NameTag      ShortName

Parameter :

StateId	StateId=xx
Country	CountryId=xx
NameTag	
ShortName	

Note :

Character string of 2 characters like AL or Tx is registered with ShortName.

---

## CountyInfo

---

Description :  
County Information

Format :  
County            CountyId    StateId    NameTag

Parameter :  
CountyId            CountyId=xx  
StateId             StateId=xx  
NameTag

Note :

---

## LM

---

Description :  
Auto Locate's System-Site ID

Format :  

LM	StateId	CountyId	TrunId	SiteId	LM_SystemID	LM_SiteID	latitude	longitude
----	---------	----------	--------	--------	-------------	-----------	----------	-----------

Parameter :  
StateId            StateId=xx  
TrunId            TrunId=xx  
CountyId           CountyId=xx  
SiteId            SiteId=xx  
LM\_SystemID      System ID(for Locate me)            character data  
LM\_SiteID        Site ID(for Locate me)  
latitude           latitude  
longitude        longitude

Note :  
first sort key=LM\_SystemID/ second sort key=LM\_SiteID

---

## LM\_Frequency

---

Description :  
Auto Locate's Frequency Information  
LmSystemType

Format :  
LM\_Frequency      Frequency    Reserve    LmTypeArray

Parameter :  
Frequency  
LmSystemType      Motorola/P25Standard/Both  
LmTypeArray        xxx  
                  ||+---- P25 X2-TDMA  
                  |+---- P25 Standard  
                  +----- Motorola  
                  1= Detect/ 0=Not deteced

Note :

---

## Profile.config

---

Product Name

---

Description :  
HomePatrol Information

Format :  

Product Name	Model
--------------	-------

Parameter :  
Model                      Model name

Note :  
UB383Z Model = "SDS100"

---

Global Setting

---

Description :  
Global setting parameter

Format :

GlobalSetting	ScanHpdb	G-Attenuator	Reserve	Priority Scan mode	Close Call mode	WX Priority_mode	->>
->>	Priority Interval	Ppriority Max Channels	Srch Key 1	Srch Key 2	Srch Key 3	->>	
->>	Key Lock	Key Beep	Volume	Squelch	Scan SearchWithScan List	Search With Scan System Avoid	->>
->>	Site NAC Operation	Global Auto Filter					

Parameter :

ScanHpdb                      Off/On

G-Attenuator                      On/Off                      Global Attenuator

Priority Scan mode                      Off/DND/Priority

Close Call mode                      Off/DND/Priority

WX Priority\_mode                      Off/Priority

Priority Interval                      1-10 (sec)

Ppriority Max Channels                      1-100

Srch Key 1                      Off, Custom0, Custom1,..... ,Custom9, ToneOut, CloseCall

Srch Key 2                      Off, Custom0, Custom1,..... ,Custom9, ToneOut, CloseCall

Srch Key 3                      Off, Custom0, Custom1,..... ,Custom9, ToneOut, CloseCall

Key Lock                      Off/On

Key Beep                      Off/1-15/Auto

Volume                      0-29 (Mobile) / 0-15 (Handy)

Squelch                      0-19 (Mobile) / 0-15(Handy)

SearchWithScanList                      Off/On

SearchWithScan                      Off/On

System Avoid                      Off/On

Site NAC Operation                      Ignore / Compare

Global Auto Filter                      Normal/Invert/Auto

Note :

---

Search Common

---

Description :  
Search / Clsoe Call Search common setting

Format :

SearchCommon	Reserve	Repeater Find	Attenuator	Delay	Modulation	->>
--------------	---------	---------------	------------	-------	------------	-----

->>	agc_analog	agc_digital	Digital_waiting_time	Digital_threshold_Mode	Digital_threshold_Level	Filter
-----	------------	-------------	----------------------	------------------------	-------------------------	--------

Parameter :

Repeater Find	Off/On
Attenuator	Off/On
Delay	30,10,5,4,3,2,1,0,-5,-10
Modulation	Auto/AM/NFM/FM/WFM/FMB
agc_analog	Off/On
agc_digital	Off/On
Digital_waiting_time	0-1000
Digital_threshold_Mode	Auto, Manual, Default
Digital_threshold_Level	5-13
Filter	Global/Normal/Invert/Auto

Note :

### PresetBroadcastScreen

Description :

Preset Broadcast Screen Setting

Format :

PresetBroadcastScreen	Pager	FM	UHF TV	VHF TV	NOAA WX
-----------------------	-------	----	--------	--------	---------

Parameter :

Pager	Off/On
FM	Off/On
UHF TV	Off/On
VHF TV	Off/On
NOAA WX	Off/On

Note :

### CustomBroadcastScreen

Description :

Custom Broadcast Screen Setting

Format :

CustomBroadcastScreen	Band 0 Enable	Band 0 Lower	Band 0 Upper	->>
->>	Band 1 Enable	Band 1 Lower	Band 1 Upper	->>
->>	:	:	:	->>
->>	:	:	:	->>
->>	Band 9 Enable	Band 9 Lower	Band 9 Upper	->>

Parameter :

Band x Enable	Off/On
Band x Lower	0-1300MHz
Band x Upper	0-1300MHz
Band x: 0-9	

Note :

### CurrentLocation

---

Description :  
Current Location parameter

Format :  

CurrentLocation	latitude	longitude	Range
-----------------	----------	-----------	-------

Parameter :  
latitude            latitude DEG format  
longitude          longitude DEG format  
Range              0.0-50.0, 0.5miles step

Note :

---

### GpsOption

---

Description :  
GPS parameter

Format :  

GpsOption	GpsFormat	BaudRate
-----------	-----------	----------

Parameter :  
GpsFormat          DMS/Decimal  
BaudRate           Off/4800/9600/19200/38400/57600/115200

Note :

---

### InterestingLocation

---

Description :  
Location parameter

Format :  

InterestingLocation	Name	latitude	longitude	Range
---------------------	------	----------	-----------	-------

Parameter :  
Name                Name Tag  
latitude            latitude decimal format  
longitude          longitude decimal format  
Range              0-50, 0.5miles step

Note :

---

### ServiceType

---

Description :  
ServiceType On/Off parameter

Format :  

ServiceType	Id01_state	Id02_state	...	Id37_state
-------------	------------	------------	-----	------------

Parameter :  
Id01\_state          On/Off  
Id02\_state          On/Off  
:  
:  
Id37\_state          On/Off

Note :  
ID = Function tag ID.

Custom ServiceType

Description :  
Custom ServiceType On/Off parameter

Format :  
CustomServiceType    Id01\_state    Id02\_state    ...    Id10\_state

Parameter :

Id01_state	On/Off	Cutom 1
Id02_state	On/Off	Cutom 2
:		
:		
Id08_state	On/Off	Cutom 8
Id09_state	On/Off	Racing Officials
Id10_state	On/Off	Racing Teams

Note :

Weather

Description :  
enable Wx Counties list's Counties list name

Format :

Weather	Reserve	Delay	Attenuator	agc analog
---------	---------	-------	------------	------------

Parameter :

Delay	30,10,5,4,3,2,1,0,-5,-10
Attenuator	Off/On
agc_analog	Off/On

Note :

WxSameList

Description :  
Counties list (1-5)'s Name

Format :

WxSameList	SameId	Name	FIPS 0	FIPS 1	FIPS 2	->>
	->>	FIPS 3	FIPS 4	FIPS 5	FIPS 6	->>
	->>	FIPS 7				

Parameter :

SameId	SameId=x (x=1-5)
Name	Same Group Name
FIPS 0	xxxxxx "000000"- "999999" or "-----"
FIPS 1	xxxxxx "-----" is none.
FIPS 2	xxxxxx
FIPS 3	xxxxxx
FIPS 4	xxxxxx
FIPS 5	xxxxxx
FIPS 6	xxxxxx
FIPS 7	xxxxxx

Note :

---

DisplayOption

---

Description :

Display parameter

Format :

DisplayOption	Reserve	Reserve	Reserve	Reserve	->>
->>	Reserve	MotTgidFormat	Reserve	Reserve	->>
->>	Reserve (Upside_down)	Reserve	Simple mode (3 Line mode)	EdacTgidFormat	Color Mode

Parameter :

MotTgidFormat      DEC/HEX  
 ScnDisp Mode      Mode 1/Mode 2  
 Simple mode        Off / On  
 EdacTgidFormat    AFS/DEC  
 Color Mode        COLOR/BLACK/WHITE

Note:

Note 2:

Upside\_down does not effect for SDS100

---

Backlight

---

Description :

Backlight settings

Format :

Backlight	Reserve	Reserve	Reserve	Reserve	Reserve	->>
->>	Brightness	Key_Backlight	FlashLed	Ext_PWR_Light	SQ Light	Key Light
->>	Dimmer_mode	Auto_Polarity	Manual_Level	->>		
	Dimmer_L	Dimmer_M	Dimmer_H	Key_Backlight2		

Parameter :

Brightness	10/20/30/40/50/60/70/80/90/100	Only SDS100
Key_Backlight	Off/On	Only SDS100
FlashLed	Off/On	
Ext_PWR_Light	Off/On	Only SDS100
SQ Light	Off/5/10/15/OpenSquelch	
Key Light	15/30/60/120/Infinite	
Dimmer_mode	Auto/Manual	Only SDS200
Auto_Polarity	Auto+/Auto-	Only SDS200
Manual_Level	Low/Middle/High	Only SDS200
Dimmer_L	10/20/30/40/50/60/70/80/90/100	Only SDS200
Dimmer_M	10/20/30/40/50/60/70/80/90/100	Only SDS200
Dimmer_H	10/20/30/40/50/60/70/80/90/100	Only SDS200
Key_Backlight2	Off/On	Only SDS200

Note :

If FlashLed is On, scanner flashes Alert LED, when LCD backlight turn off,

---

QuickKeys

---

Description :



Favorites List Quick Status

Format :

QuickKeys	F-Qkey_00	F-Qkey_01	F-Qkey_02	.....	F-Qkey_99
-----------	-----------	-----------	-----------	-------	-----------

Parameter :

F-Qkey\_xx            Off/On

Note :

---

Battery

Description :

Battery parameter

Format :

Battery	Battery Save	Reserve	Reserve	Alert Interval	->>
	->> Alert Tone	Alert Volume			

Parameter :

Battery Save            Off/On  
Alert Interval            1-60  
Alert Tone                640,780,920,1060,1200  
Alert Volume             Off/1-15/Auto

Note :

This sentence is effective only Handy model.

---

OwnerInfo

Description :

Owner Information

Format :

OwnerInfo	Msg1st	Msg2nd	Msg3rd	Msg4th
-----------	--------	--------	--------	--------

Parameter :

Msg1st  
Msg2nd  
Msg3rd  
Msg4th

Note :

Msg xx th length is max 24 characters.

---

ClockOption

Description :

Clock parameter

Format :

ClockOption	Reserve	TimeZone	Daylight Save
-------------	---------	----------	---------------

Parameter :

TimeZone                -14.0 <-> 14.0    0.5 step                0.5 = 30min, 1=1hour  
Daylight Save            On/Off

Note :

RecordingOption

Description :

Recording parameter

Format :

RecordingOption	Replay Duration	User Rec
-----------------	-----------------	----------

Parameter :

Replay Duration 0, 30-240, 30 step ( 1=1sec , 0 means Off)  
 User Rec On/Off

Note :

LimitSearch

Description :

Limit Search parameter

Format :

LimitSearch	MyId	Name	Lower	Upper	Modulation	Step	->>
->>	Delay	Attenuator	BankStatus	Avoid	Reserve	Reserve	->>
	->>	Reserve	Reserve	Hold Time	Analog AGC	Digital AGC	->>
	->>	Digital Waiting Time	Digital Threshold	Digital Threshold Level			

Parameter :

MyId SrchId=xx  
 Name Name Tag  
 Lower Frequency format  
 Upper Frequency format  
 Modulation Auto/AM/NFM/FM/WFM/FMB  
 Step Auto/5000/6250/7500/8333/10000/12500/15000/20000/25000/50000/100000  
 Delay 30,10,5,4,3,2,1,0,-5,-10  
 Attenuator Off/On  
 BankStatus Off/On  
 Avoid Off/On  
 Hold Time 0-255  
 Analog AGC Off/On  
 Digital AGC Off/On  
 Digital Waiting Time 0-1000  
 Digital Threshold Mode Auto, Manual, Default  
 Digital Threshold Level 5-13

Note :

CloseCall

Description :

Motorola's Custom Band Plan parameter for C-Chan only Custom Search

Format :

CloseCall	Reserve	Reserve	Avoid	pause_time	->>
->>	Alert Type	Alert Volume	Alert Color	Alert Pattern	->>
->>	band_vhf_l1	band_vhf_l2	band_air	band_vhf_h1	
->>	band_vhf_h2	band_uhf	band_800	->>	
->>	Reserve	Reserve	Hold Time		

Parameter :

Avoid Off/On for search with scan

pause\_time 3, 5, 10, 15, 30, 45, 60, Infinite  
 Alert Type Alert Tone Type format.  
 Alert Volume Alert Tone Volume format.  
 Alert Color Alert Light Color format.  
 Alert Pattern Alert Light Pattern format.  
 band\_vhf\_l1 Off/On  
 band\_vhf\_l2 Off/On  
 band\_air Off/On  
 band\_vhf\_h1 Off/On  
 band\_vhf\_h2 Off/On  
 band\_uhf Off/On  
 band\_800 Off/On  
 Hold Time 0-255 for search with scan

Note :

## ToneOut

Description :

Toun out mode setting

Format :

ToneOut	MyId	Name Tag	Reserve	Frequency	->>
->>	Modulation	Tone A	Tone B	Attenuator	->>
->>	Delay	agc_analog	->>		
->>	Alert Tone	Alert Volume	Alert Color	Alert Pattern	

Parameter :

MyId ToneOutId=xx  
 Name Tag ASCII character strings  
 Frequency Frequency(1=1Hz)  
 Modulation AUTO/NFM/FM It hasn't AM,WFM,FMB.  
 Tone A 0, 2500-35000 (1=0.1Hz) It is illegal frequency format.  
 Tone B 0, 2500-35000 (1=0.1Hz) It is illegal frequency format.  
 Attenuator Off/On  
 delay 0, 1, 2, 3, 4, 5, 10, 30, Infinite It hasn't negative delay.  
 agc\_analog Off, On  
 Alert Type Alert Tone Type format.  
 Alert Volume Alert Tone Volume format.  
 Alert Color Alert Light Color format.  
 Alert Pattern Alert Light Pattern format.

Note :

## AvoidFreqs

Description :

Avoided frequencies list for Search and Close Call

Format :

AvoidFreqs	Reserve	Freq 1	Freq 2	...	Freq 16
------------	---------	--------	--------	-----	---------

Parameter :

AvoidFreqs Frequency format

Note :

## IfxFreqs

Description :

IF Exchanger frequencies list

Format :

IfxFreqs	Reserve	Freq 1	Freq 2	...	Freq 16
----------	---------	--------	--------	-----	---------

Parameter :

IfxFreqs

Frequency format

Note :

BandDefault

Description :  
BandDefault

Format :

BandDefault	MyId	Modulation	Step
-------------	------	------------	------

Parameter :

MyId	BandId=xx
Modulation	AM/NFM/FM/WFM/FMB
Step	5000/6250/7500/8333/10000/12500/15000/20000/25000/50000/100000

Note :

DispOptItems

Description :  
Display Customize Option Item Settings

Format :

DispOptItems	DispOptId	DispLayoutId	OptItem1	OptItem2	->>
->>	->>	OptItem3	...	OptItem n	

Note : see sheet "DiplsCustomSDS100" and "Color, Item code" for detail

DispColors

Description :  
Display Customize Color Settings

Format :

DispColors	DispColorId	ColorLayoutId	TextColor1	BackColor1	->>
->>	->>	TextColor2	BackColor2	...	TextColor n BackColor n

Note : see sheet "DiplsCustomSDS100" and "Color, Item code" for detail

# favorite\_list.config

F-List

Description :  
favorite list parameter

Format :

F-List	UserName	Filename	LocationControl	Monitor	Quick key	->>
->>	NumberTag	->>				
->>	Startup key 0	Startup key 1	Startup key 2	Startup key 3	Startup key 4	->>
->>	Startup key 5	Startup key 6	Startup key 7	Startup key 8	Startup key 9	->>
->>	S-Qkey_00	S-Qkey_01	...	....	S-Qkey_99	

Parameter :

UserName	Favorites List display name
Filename	Favorites List file name(include extension)

LocationControl	On(=Yes) / Off(=No)
Monitor	On(=Monitor) / Off
Quick key	Off/0-99
NumberTag	Off/0-99
Startup key 0	Off / On
Startup key 1	Off / On
Startup key 2	Off / On
Startup key 3	Off / On
Startup key 4	Off / On
Startup key 5	Off / On
Startup key 6	Off / On
Startup key 7	Off / On
Startup key 8	Off / On
Startup key 9	Off / On
S-Qkey_00	Off / On
S-Qkey_01	Off / On
S-Qkey_02	Off / On
:	
:	
S-Qkey_98	Off / On
S-Qkey_99	Off / On

favorites list quick key  
 favorites list number tag  
 start up configuration key

Note :

**[DispLayouts and ColorLayouts]**

DispLayouts and ColorLayouts means display mode.

DispLayouts	ColorLayouts	DispLayouts	ColorLayouts
Simple Conventional Mode			
Simple Trunk Mode	2	1	
Search/CC Mode	4	7	
Weather Mode	4	4	
Tone Out Mode	7	5	

**[DispOptions]**

DispOptions stores Option Item. It is divided 4 groups by "DispOption".

- User can select following
- DispOption1 Huge area option
- DispOption2 Large area option
- DispOption3 Small area option
- DispOption4 Item area option

see to sheet "Color Item code" for Detail.

The items order is determined by "DispOption" and "DispLayouts".

**[DispColors]**

DispColors stores customize color. It is divided same groups by "DispColors".

Each item has 2 colors (Text and Back).

F, HOLD, Soft Key 1, Soft Key 2 and Soft Key 3 are reversed text color and back color.

The items order is determined by "DispColors" and "ColorLayouts".

**Simple Conventional Mode**

**Simple Trunk Mode**

Option 1	Option 2	Option 3	Option 4	F	HOLD	Soft Key 1	Soft Key 2	Soft Key 3
Option 1	Option 2	Option 3	Option 4	F <td>HOLD</td> <td>Soft Key 1</td> <td>Soft Key 2</td> <td>Soft Key 3</td>	HOLD	Soft Key 1	Soft Key 2	Soft Key 3
Option 1	Option 2	Option 3	Option 4	F <td>HOLD</td> <td>Soft Key 1</td> <td>Soft Key 2</td> <td>Soft Key 3</td>	HOLD	Soft Key 1	Soft Key 2	Soft Key 3

System Name

Dept Name

Channel Name

Option A, 1	Option B, 1	Option C, 1	Option D, 1	Option E, 1	Option F, 1	Option G, 1	Option H, 1	Option I, 1	Option J, 1	Option K, 1	Option L, 1
Option A, 1	Option B, 1	Option C, 1	Option D, 1	Option E, 1	Option F, 1	Option G, 1	Option H, 1	Option I, 1	Option J, 1	Option K, 1	Option L, 1

**DispOptions**

DispOption1	DispOption2	DispOption3	DispOption4	DispOption5	DispOption6	DispOption7	DispOption8	DispOption9	DispOption10
DispOption1	DispOption2	DispOption3	DispOption4	DispOption5	DispOption6	DispOption7	DispOption8	DispOption9	DispOption10

**DispColors**

DispColor1	DispColor2	DispColor3	DispColor4	DispColor5	DispColor6	DispColor7	DispColor8	DispColor9	DispColor10
DispColor1	DispColor2	DispColor3	DispColor4	DispColor5	DispColor6	DispColor7	DispColor8	DispColor9	DispColor10

F, Soft Key 1, Soft Key 2 and Soft Key 3 are reversed text color and back color.

Color item has TextColor and BackColor.

Ex

DispOptions DispOption-1 DispLayouts-FL Name Empty Frequency

DispOptions DispOption-2 DispLayouts-SPareType CTCSS/DCS

DispOptions DispOption-3 DispLayouts-1ATT Empty Day

DispOptions DispOption-4 DispLayouts-Modulation P, D, IFA LNK Empty REC GPS

DispColors	DispColor1-1	DispColor1-2	DispColor1-3	DispColor1-4	DispColor1-5	DispColor1-6	DispColor1-7	DispColor1-8	DispColor1-9	DispColor1-10	DispColor1-11	DispColor1-12	DispColor1-13	DispColor1-14	DispColor1-15	DispColor1-16	DispColor1-17	DispColor1-18	DispColor1-19	DispColor1-20
DispColors	DispColor1-1	DispColor1-2	DispColor1-3	DispColor1-4	DispColor1-5	DispColor1-6	DispColor1-7	DispColor1-8	DispColor1-9	DispColor1-10	DispColor1-11	DispColor1-12	DispColor1-13	DispColor1-14	DispColor1-15	DispColor1-16	DispColor1-17	DispColor1-18	DispColor1-19	DispColor1-20

System Name Text color

System Name Back color

**Detail Conventional Mode**

**Detail Trunk Mode**

Option 1	Option 2	Option 3	Option 4	F	HOLD	Soft Key 1	Soft Key 2	Soft Key 3
Option 1	Option 2	Option 3	Option 4	F <td>HOLD</td> <td>Soft Key 1</td> <td>Soft Key 2</td> <td>Soft Key 3</td>	HOLD	Soft Key 1	Soft Key 2	Soft Key 3
Option 1	Option 2	Option 3	Option 4	F <td>HOLD</td> <td>Soft Key 1</td> <td>Soft Key 2</td> <td>Soft Key 3</td>	HOLD	Soft Key 1	Soft Key 2	Soft Key 3

System Name

Dept Name

Channel Name

Option A, 1	Option B, 1	Option C, 1	Option D, 1	Option E, 1	Option F, 1	Option G, 1	Option H, 1	Option I, 1	Option J, 1	Option K, 1	Option L, 1
Option A, 1	Option B, 1	Option C, 1	Option D, 1	Option E, 1	Option F, 1	Option G, 1	Option H, 1	Option I, 1	Option J, 1	Option K, 1	Option L, 1

**DispOptions**

DispOption1	DispOption2	DispOption3	DispOption4	DispOption5	DispOption6	DispOption7	DispOption8	DispOption9	DispOption10	DispOption11	DispOption12	DispOption13	DispOption14	DispOption15	DispOption16	DispOption17	DispOption18	DispOption19	DispOption20
DispOption1	DispOption2	DispOption3	DispOption4	DispOption5	DispOption6	DispOption7	DispOption8	DispOption9	DispOption10	DispOption11	DispOption12	DispOption13	DispOption14	DispOption15	DispOption16	DispOption17	DispOption18	DispOption19	DispOption20

**DispColors**

DispColor1	DispColor2	DispColor3	DispColor4	DispColor5	DispColor6	DispColor7	DispColor8	DispColor9	DispColor10	DispColor11	DispColor12	DispColor13	DispColor14	DispColor15	DispColor16	DispColor17	DispColor18	DispColor19	DispColor20
DispColor1	DispColor2	DispColor3	DispColor4	DispColor5	DispColor6	DispColor7	DispColor8	DispColor9	DispColor10	DispColor11	DispColor12	DispColor13	DispColor14	DispColor15	DispColor16	DispColor17	DispColor18	DispColor19	DispColor20

F, Soft Key 1, Soft Key 2 and Soft Key 3 are reversed text color and back color.

**Search/CC Mode**

**Weather Mode**

Option 1	Option 2	Option 3	Option 4	F	HOLD	Soft Key 1	Soft Key 2	Soft Key 3
Option 1	Option 2	Option 3	Option 4	F <td>HOLD</td> <td>Soft Key 1</td> <td>Soft Key 2</td> <td>Soft Key 3</td>	HOLD	Soft Key 1	Soft Key 2	Soft Key 3
Option 1	Option 2	Option 3	Option 4	F <td>HOLD</td> <td>Soft Key 1</td> <td>Soft Key 2</td> <td>Soft Key 3</td>	HOLD	Soft Key 1	Soft Key 2	Soft Key 3

Primary 1

Primary 2

Primary 3

Option A, 1	Option B, 1	Option C, 1	Option D, 1	Option E, 1	Option F, 1	Option G, 1	Option H, 1	Option I, 1	Option J, 1	Option K, 1	Option L, 1
Option A, 1	Option B, 1	Option C, 1	Option D, 1	Option E, 1	Option F, 1	Option G, 1	Option H, 1	Option I, 1	Option J, 1	Option K, 1	Option L, 1

**DispOptions**

DispOption1	DispOption2	DispOption3	DispOption4	DispOption5	DispOption6	DispOption7	DispOption8	DispOption9	DispOption10	DispOption11	DispOption12	DispOption13	DispOption14	DispOption15	DispOption16	DispOption17	DispOption18	DispOption19	DispOption20
DispOption1	DispOption2	DispOption3	DispOption4	DispOption5	DispOption6	DispOption7	DispOption8	DispOption9	DispOption10	DispOption11	DispOption12	DispOption13	DispOption14	DispOption15	DispOption16	DispOption17	DispOption18	DispOption19	DispOption20

**DispColors**

DispColor1	DispColor2	DispColor3	DispColor4	DispColor5	DispColor6	DispColor7	DispColor8	DispColor9	DispColor10	DispColor11	DispColor12	DispColor13	DispColor14	DispColor15	DispColor16	DispColor17	DispColor18	DispColor19	DispColor20
DispColor1	DispColor2	DispColor3	DispColor4	DispColor5	DispColor6	DispColor7	DispColor8	DispColor9	DispColor10	DispColor11	DispColor12	DispColor13	DispColor14	DispColor15	DispColor16	DispColor17	DispColor18	DispColor19	DispColor20

F, HOLD, Soft Key 1, Soft Key 2 and Soft Key 3 are reversed text color and back color.

# [Discovery] Conventional.config

-----  
ConvDiscovery  
-----

Description :  
Conventional Discovery parameter

Format :

ConvDiscovery	Reserve	Name	Lower	Upper	Modulation	->>
		->>	Step	Delay	Logginig	->>
				Compare DB	Duration	Time-Out
						Auto Store

Parameter :

Name           Max Length 32char  
 Lower          Frequency format  
 Upper          Frequency format  
 Modulation     AUTO/AM/NFM/FM/WFM/FMB  
 Step           Auto/5000/6250/7500/8333/10000/12500/15000/20000/25000/50000/100000  
 Delay          5,4,3,2,1,0   (Not support "minus delay")  
 Logging        All / New  
 Compare DB     On/Off  
 Duration       0/30/60/90/120/150/180/300/600 , ( 1=1sec ( Recording Duration )  
 Time-Out       0/10/30/60 ( 0=OFF)  
 Auto Store     Off / On

Note :

# Trunk.config

-----  
DiscoveryTrunk  
-----

Description :  
Trunking Discovery parameter

Format :

TrunkDiscovery	Reverse	Name	Delay	Logging	->>
->>	Compare DB	Duration	Fav Name	System Name	->>
->>	Trunk ID	System Type	Site ID	Site Name	Time-Out
					Auto Store

Parameter :

Name           Max Length 32char  
 Delay          5,4,3,2,1,0   (Not support "minus delay")  
 Logging        All / New  
 Duration       0/30/60/90/120/150/180/300/600 , ( 1=1sec ( Recording Duration )  
 Compare DB     On/Off  
 Fav Name       Favorites List Name, ( this one is set *NULL* ,if Full Database)  
 System Name    system name tag  
 Trunk ID       TrunkId=xx (Database=HPDB), null (Database=Favorites List)

System Type	Conventional Motorola Edacs Scat (reserve parameter) Ltr P25Standard P25OneFrequency P25X2_TDMA MotoTRBO DmrOneFrequency Nxdn NxdnOneFrequency
Siteld	Siteld=xx (Database=HPDB), null (Database=Favorites List)
Site Name	site name tag
Time-Out	0/10/30/60 ( 0=OFF)
Auto Store	Off / On

Note :

Fav Name, System Name, Trunk ID and System Type, Siteld, Site Name are set by HomePatrol only.  
 PC-App doesn't modify . It reads those one, then wrtes same value to file.  
 When PC-App creates new Trunking Discovery, those parameters are set NULL.



# \*.avoid

[Avoid]

Description :  
Avoid Information

Format :

1.	Avoid	StateId	SystemId	DeptId	ChannelId
2.	Avoid	StateId	SystemId	DeptId	
3.	Avoid	StateId	SystemId	SiteId	
4.	Avoid	StateId	SystemId		

Parameter :

- Note :
- 1 channel(Conventional frequency/TGID) avoid format
  - 2 department avoid format
  - 3 Site avoid format
  - 4 System avoid format

-----  
**ModeInfo**  
 -----

Description :  
 Mode Information

Format :

ModeInfo	Mode	System Hold	Dept Hold
----------	------	-------------	-----------

Parameter :

Mode	Scan
	ScanHold
	ToneOut
	ToneOutHold
	CustomSearch
	CustomSearchHold
	QuickSearch
	QuickSearchHold
	IDsearch
	IDsearchhold
	IDscan
	IDmanual
	EdacsIDSearch
	EdacsIDSearchHold
	EdacsIDScan
	EdacsIDManual
	LTRIDSearch
	LTRIDSearchHold
	LTRIDScan
	LTRIDManual
	CloseCallOnly
	WeatherScan
	WeatherHold

-----  
**[ScanListType]**  
 -----

Description :  
 Scan List Type Parameter

Format :

ScanListType	Type	Name
--------------	------	------

Parameter :

Type	FullDatabase
	FavoritesList
	SearchWithScan
Name	Favorites List Name

-----  
**[ScanConvSystem ]**  
 -----

Description :  
 Conventional System Parameter

Format :

ScanConvSystem	System Hold	Conventional	MyId	ParentId	Name Tag	Avoid	Reserve	->>
	-->	System Type	Quick Key	Number tag	System Hold Time	Analog AGC	Digital AGC	->>
	-->	Digital Waiting Time	Digital Threshold Mode	Digital Threshold Level				

Parameter :

System Hold	On/Off
MyId	CountyId=xx
	AgencyId=xx

ParentId                    StateId=xx  
 Name Tag                   Name Tag  
 Avoid                        On/Off  
 System Type  
 Quick Key                   Off/0-99  
 Number tag                  Off/0-99  
 System Hold Time           0-255  
 Analog AGC                  Off/On  
 Digital AGC                 Off/On  
 Digital Waiting Time        0-1000  
 Digital Threshold Mode     Auto, Manual, Default  
 Digital Threshold Level    5-13

-----  
 [ScanTrunkSystem]  
 -----

Description :  
 Trunked System Parameter

Format :

ScanTrunkSystem	System Hold	Trunk	MyId	ParentId	Name Tag	Avoid	Reserve	->>
	->>	System Type	ID Search	Alert Tone	Alert Volume	Status Bit	Reserve(NAC)	->>
	->>	Quick Key	Number tag	Site Hold Time	Analog AGC	Digital AGC		
		End Code	Priority ID Scan	Alert Color	Alert Pattern	TGID Format		

Parameter :

System Hold                On/Off  
 MyId                       TrunkId=xx  
 ParentId                   StateId=xx  
 Name Tag                   ASCII character strings  
 Avoid                       On/Off  
 System Type  
                             Conventional  
                             Motorola  
                             Edacs  
                             Scat                               (reserve parameter)  
                             Ltr  
                             P25Standard                       it is P25 Phase I & II  
                             P25OneFrequency  
                             P25X2\_TDMA  
                             MotoTrbo  
                             DmrOneFrequency  
                             Nxdn  
                             NxdnOneFrequency  
 ID Search                  Off/On  
 Alert Tone                  Off/0/1/.../9               Emergency Alert Tone  
 Alert Volume               Auto/1/.../15  
 Status Bit                  Yes/Ignore  
 Reserve (NAC)              Srch/0-FFF  
 Quick Key                   Off/0-99  
 Number tag                  Off/0-99  
 System Hold Time           0-255  
 Analog AGC                  Off/On  
 Digital AGC                 Off/On  
 End Code                   Analog/Analog+Digital/Ignore  
 Priority ID Scan            Off/On  
 Alert Color                  Alert Light Color format.  
 Alert Pattern               Alert Light Pattern format.  
 TGID Format                  NEXEDGE/IDAS

-----  
 [ScanC-Group]  
 [ScanT-Group]  
 -----

Description :  
 Group Parameter

Format :

ScanC-Group	Group Hold	C-Group	MyId	ParentId	Name Tag	Avoid		->>
		->>	Latitude	Longitude	Range	Location Type	Filter	

ScanT-Group	Group Hold	T-Group	MyId	ParentId	Name Tag	Avoid
		->>	Latitude	Longitude	Range	Location Type

-&gt;&gt;

Parameter :

Group Hold            On/Off  
 MyId                    xxId=xx  
 ParentId                xxId=xx  
 Name Tag                ASCII character strings  
 Avoid                    On/Off  
 Latitude  
 Longitude  
 Range  
 Location Type          Circle/Rectangles  
**Filter                    Global/Normal/Invert/Auto**

---

[ScanC-Freq]

---

Description :

Channel Frequency Parameter

Format :

ScanC-Freq	C-Freq	MyId	ParentId	Name Tag	Avoid	Frequency	Modulation
	->>	Audio Option	FuncTagId	Attenuator	Delay	Volume Offset	->>
	->>	Alert Tone	Alert Volume	Alert Color	Alert Pattern		->>
	->>	Number tag	Priority Channel				

-&gt;&gt;

Parameter :

MyId                    xxId=xx  
 ParentId                xxId=xx  
 Name Tag                ASCII character strings  
 Avoid                    On/Off  
 Frequency                Frequency(1=1Hz)  
 Modulation                AUTO/AM/NFM/FM  
 Audio Option            null(All),Tone=xxx,NAC=xxx, ColorCode=xx, RAN=xx, Area=x to see sheet "Sub Audio" for Detail.  
 FuncTagId                1-37,208-218  
 Attenuator                On/Off  
 Delay                    30,10,5,4,3,2,1,0,-5,-10  
 Volume Offset            -3/-2/-1/0/1/2/3  
 Alert Tone                Off/1-9  
 Alert Volume             Auto/1-15  
 Alert Color                Alert Light Color format.  
 Alert Pattern             Alert Light Pattern format.  
 Number tag                Off/0-999  
 Priority Channel          Off/On

---

[ScanTGID]

---

Description :

TGID Parameter

Format :

ScanTGID	TGID	MyId	ParentId	Name Tag	Avoid	TGID	Audio Type
		->>	->>	FuncTagId	Delay	Volume Offset	->>
		->>	Alert Tone	Alert Volume	Alert Color	Alert Pattern	->>
		->>	Number tag	Priority Channel	TDMA Slot		

-&gt;&gt;

Parameter :

MyId                    xxId=xx  
 ParentId                xxId=xx  
 Name Tag                ASCII character strings  
 Avoid                    On/Off  
 TGID                    TGID character strings  
 Audio Type                ALL/ANALOG/DIGITAL  
 FuncTagId                1-37,208-218  
 Delay                    30,10,5,4,3,2,1,0,-5,-10  
 Volume Offset            -3/-2/-1/0/1/2/3  
 Alert Tone                Off/1-9  
 Alert Volume             Auto/1-15  
 Alert Color                Alert Light Color format.

Alert Pattern           Alert Light Pattern format.  
 Number tag            Off/0-999  
 Priority Channel       Off/On  
 TDMA Slot             1/2/Any

**ScanSite**

Description :

Format :

ScanSite	Site Hold	Site	MyId	ParentId	Name Tag	Avoid	Latitude	Longitude	->>
			->>	Range	Modulation	Mot Band Type	Edacs Band Type		->>
			->>	Location Type	Attenuator	->>			
			->>	Digital Waiting Time	Digital Threshold Mode	Digital Threshold Level	Quick Key	NAC	Filter

Parameter :

MyId                    SiteId=xx  
 ParentId              TrunkId=xx  
 Name Tag              ASCII character strings  
 Avoid                  On/Off  
 Latitude              According to basic rules.  
 Longitude             According to basic rules.  
 Range                 1=1mile, Up to the 1 decimal point figure.  
 Modulation            AUTO  
                         NFM  
                         FM  
  
 Mot Band Type         Standard  
                         Sprinter  
                         Custom  
  
 Edacs Band Type      Wide  
                         Narrow  
  
 Location Type         Circle/Rectangles  
  
 Attenuator            On/Off  
  
 Digital Waiting Time   0-1000  
 Digital Threshold Mode  Auto, Manual, Default  
 Digital Threshold Level  5-13  
 Quick Key             Off/0-99  
 NAC                    Srch/0-FFF  
 Filter                 Global/Normal/Invert/Auto

**[ScanT-Freq]**

Description :

Format :

ScanT-Freq	T-Freq	Reserve(MyId)	ParentId	Reserve	Reserve(Avoid)	Frequency	LCN	Color Code / RAN / Area
------------	--------	---------------	----------	---------	----------------	-----------	-----	-------------------------

Parameter :

Reserve(MyId)         xxId=xx  
 ParentId             xxId=xx  
 Reserve  
 Reserve(Avoid)       Off  
 Frequency             Frequency(1=1Hz)  
 LCN                   number(0,1-30 / 1-20 / 1-4094 / 1-1023)  
 Color Code / RAN / Area  0-15, RAN=0-63, Area=0-1, Srch

**[SearchWithScan]**

Description :

Sesarch With Scan parameter

Format :

SearchWithScan	System Index
----------------	--------------

Parameter :

---

[CustomSearch]

---

Description :

Custom Serach Parameter

Format :

CustomSearch	Bank	Frequency
--------------	------	-----------

Parameter :

Bank                    0-9  
Frequency              0x00250000 - 0x13000000

---

[QuickSearch]

---

Description :

Quick Search parameter

Format :

QuickSearch	Frequency
-------------	-----------

Parameter :

Frequency              0x00250000 - 0x13000000

---

[ToneOut]

---

Description :

ToneOut Parameter

Format :

ToneOut	Channel
---------	---------

Parameter :

Channel                1 - 32

---

[CloseCall]

---

Description :

Close Call Parameter

Format :

CloseCall
-----------

Parameter :

**【Conventional】**

logging	summary
time	---
Frequency	o
Modulation	o
Audio Option	o
Hits	o
Duration	o
Name	o
Known	o
Type	o

**【Trunking】**

logging	summary
time	---
TGID	o
Site Name	---
Audio Mode	o
Hits	o
Duration	o
Unit ID	---
Known	o
Name	o

**【Run Info】**

Description: There is Run Info sentence in first line on summary.log.  
It is recorded information to resume discovery (ex Location Limit Frequencies, Trunk System).

Format(Conventional):

RunInfo_C	Latitude	Longitude	Range	Lower	Upper	Modulation	Step
			Delay	Logginig	Compare DB	Duration	Time-Out

-->

Parameter:

Latitude latitude decimal fomate  
 Longitude longitude decimal fomate  
 Range 0-50 , 0.5miles step  
 Lower: Frequency(1=1Hz)  
 Upper: Frequency(1=1Hz)  
 Modulation: AUTO/AM/NFM/FM/WFM/FMB  
 Step Auto/5000/6250/7500/8333/10000/12500/15000/20000/25000/50000/100000  
 Delay: 0,1,2,3,4,5  
 Logging: All, New  
 Compare DB: On/Off  
 Duration: 0,30,60,90,120,150,180,300,600  
 Time-Out 0/10/30/60 ( 0=OFF)

Format(Trunking):

RunInfo_T	Latitude	Longitude	Range	Delay	Logging	Compare DB	Duration
			Fav Name	System Name	TrunkId	System Type	SiteId
			Site Name	Time-Out			

-->

-->

Parameter:

Latitude latitude decimal fomate  
 Longitude longitude decimal fomate  
 Range 0-50 , 0.5miles step  
 Delay: 0,2,5  
 Logging: All, New  
 Duration: 0,30,60,90,120,150,180,300,600  
 Compare DB: On/Off  
 Fav Name: Favorites List name (Database=Favorites List), null (Database=HPDB)  
 System Name: system name tag  
 TrunkId TrunkId=xx (Database=HPDB), null (Database=Favorites List)  
 System Type:  
     Conventional  
     Motorola  
     Edacs  
     Scat (reserve parameter)  
     Ltr  
     P25Standard

P25OneFrequency  
P25X2\_TDMA  
MotoTRBO  
DmrOneFrequency  
Nxdn  
NxdnOneFrequency  
SiteId SiteId=xx (Database=HPDB), null (Database=Favorites List)  
Site Name: site name tag  
Time-Out 0/10/30/60 ( 0=OFF)



**【Conventional】**

Description:

Format:

Summary_C_Log	Freq	Audio Option	Modulation	Duration	Hits	Name	Type
					->>	Known	Avoid

-&gt;&gt;

Parameter:

Freq                    Frequency(1=1Hz)  
 Audio Option        TONE=Cxxx.x, TONE=Dxxx, NAC=xxxx, ColorCode=xx, RAN=xx, Area=x, "None"  
 Modulation         AM/NFM/FM/WFM/FMB  
 Duration            0-600  
 Hits                 1-65535  
 Name                channel name (if it detetced on Database)  
 Type                 S(site freq), C(conventional freq)  
 Known               1(known), 0(new found)  
 Avoid                1(avoid), 0(unavoid)

**【Trunking】**

Description:

Format:

Summary_T_Log	TGID	Audio Mode	Duration	Hits	Name	Known	Avoid
---------------	------	------------	----------	------	------	-------	-------

Parameter:

TGID                 TGID character strings  
 Audio Mode         ANALOG/DIGITAL  
 Duration            0-600  
 Hits                 1-65535  
 Name                TGID name(if it detetced on Database)  
 Known               1(known), 0(new found)  
 Avoid                1(avoid), 0(unavoid)

**【Conventional】**

logging	detail
time	o
Frequency	o
Modulation	o
Audio Option	o
Hits	---
Duration	o
Name	o
Known	---
Type	o

**【Trunking】**

logging	detail
time	o
TGID	o
Site Name	o
Audio Mode	o
Hits	---
Duration	o
Unit ID	o
Known	---
Name	o
NAC / Color Code /	o
RAN / Area	o
TDMA Slot	o

**【Conventional】**

Description:

Format:

Detail_C_Log	Time	Freq	Audio Option	Modulation	Duration	Name	Type
--------------	------	------	--------------	------------	----------	------	------

Parameter:

Time	MM/DD/YYYY hh:mm:ss
Freq	Frequency(1=1Hz)
Audio Option	"None", "TONE=Cxxx.x", "TONE=Dxxx", "NAC=xxxx", "Color Code=xx", "RAN=xx", "Area=x"
Modulation	AM/NFM/FM
Duration	0-600
Name	channel name ( if channel is detected on DB)
Type	S(site frequency), C(conventional frequency)

**【Trunking】**

Description:

Format:

Detail_T_Log	Time	TGID	Audio Mode	Duration	Unit ID	Reserve	Name	NAC / Color Code / RAN / Area	TDMA Slot
--------------	------	------	------------	----------	---------	---------	------	----------------------------------	-----------

Parameter:

Time	MM/DD/YYYY hh:mm:ss
TGID	TGID character strings
Audio Mode	ANALOG/DIGITAL
Duration	0-600
Unit ID	1-16777215 , 0 (if HP-1 did not detected Unit ID)
Reserve	
Name	channel name ( if channel is detected on DB)
NAC / Color Code /	
RAN / Area	xxxh / 0-15 / 0-63 / 0-1, None
TDMA Slot	1, 2, None

# Service Type

FuncTagId	Service Type
1	Multi-Dispatch
2	Law Dispatch
3	Fire Dispatch
4	EMS Dispatch
5	non
6	Multi-Tac
7	Law Tac
8	Fire-Tac
9	EMS-Tac
10	non
11	Interop
12	Hospital
13	Ham
14	Public Works
15	Aircraft
16	Federal
17	Business
18	non
19	non
20	Railroad
21	Other
22	Multi-Talk
23	Law Talk
24	Fire-Talk
25	EMS-Talk
26	Transportation
27	non
28	non
29	Emergency Ops
30	Military
31	Media
32	Schools
33	Security
34	Utilities
35	non
36	non
37	Corrections

## Custom Service Type

208	Custom 1
209	Custom 2
210	Custom 3
211	Custom 4
212	Custom 5
213	Custom 6
214	Custom 7
215	Custom 8
216	Racing Officials



Conventional channel Option & Discovery Detail/Summary

P25 Frequency Option

DMR Frequency Option & Discovery Detail

NXDN Frequency Option & Discovery Detail

Discovery folder name String

All	Analog ( CTCSS/DCS )		Digital (P25 NAC/Color Code/RAN/Area)		Digital (P25 NAC)	Digital (Color Code)	Digital (RAN/Area)	Analog ( CTCSS/DCS )		Digital (P25 NAC/RAN/Area) If Digital, always exists NAC or R/				
File	File	File	File	File	File	File	File	File	File	File	File			
(null)	Tone Search	TONE=Srch	NAC Search	NAC=Srch	NAC Search	Srch	Color Code Search	Srch	RAN/Area Search	Srch	None	None	None	(Nothing)
	CTCSS 67.0Hz	TONE=C67.0	NAC 000	NAC=0	NAC 000	0	Color Code 0	0	Area 0	Area=0	CTCSS 67.0Hz	C67.0	NAC 000	N0
	CTCSS 69.3Hz	TONE=C69.3	NAC 001	NAC=1	NAC 001	1	Color Code 1	1	Area 1	Area=1	CTCSS 69.3Hz	C69.3	NAC 001	N1
	CTCSS 71.9Hz	TONE=C71.9	NAC 002	NAC=2	NAC 002	2	Color Code 2	2	RAN 0	RAN=0	CTCSS 71.9Hz	C71.9	NAC 002	N2
	CTCSS 74.4Hz	TONE=C74.4	NAC 003	NAC=3	NAC 003	3	Color Code 3	3	RAN 1	RAN=1	CTCSS 74.4Hz	C74.4	NAC 003	N3
	CTCSS 77.0Hz	TONE=C77.0	NAC 004	NAC=4	NAC 004	4	Color Code 4	4	RAN 2	RAN=2	CTCSS 77.0Hz	C77.0	NAC 004	N4
	CTCSS 79.7Hz	TONE=C79.7	NAC 005	NAC=5	NAC 005	5	Color Code 5	5	RAN 3	RAN=3	CTCSS 79.7Hz	C79.7	NAC 005	N5
	CTCSS 82.5Hz	TONE=C82.5	NAC 006	NAC=6	NAC 006	6	Color Code 6	6	RAN 4	RAN=4	CTCSS 82.5Hz	C82.5	NAC 006	N6
	CTCSS 85.4Hz	TONE=C85.4	NAC 007	NAC=7	NAC 007	7	Color Code 7	7	RAN 5	RAN=5	CTCSS 85.4Hz	C85.4	NAC 007	N7
	CTCSS 88.5Hz	TONE=C88.5	NAC 008	NAC=8	NAC 008	8	Color Code 8	8	RAN 6	RAN=6	CTCSS 88.5Hz	C88.5	NAC 008	N8
	CTCSS 91.5Hz	TONE=C91.5	NAC 009	NAC=9	NAC 009	9	Color Code 9	9	RAN 7	RAN=7	CTCSS 91.5Hz	C91.5	NAC 009	N9
	CTCSS 94.8Hz	TONE=C94.8	NAC 00A	NAC=A	NAC 00A	10	Color Code 10	10	RAN 8	RAN=8	CTCSS 94.8Hz	C94.8	NAC 00A	NA
	CTCSS 97.4Hz	TONE=C97.4	NAC 00B	NAC=B	NAC 00B	B	Color Code 11	11	RAN 9	RAN=9	CTCSS 97.4Hz	C97.4	NAC 00B	NB
	CTCSS 100.0Hz	TONE=C100.0	NAC 00C	NAC=C	NAC 00C	C	Color Code 12	12	RAN 10	RAN=10	CTCSS 100.0Hz	C100.0	NAC 00C	NC
	CTCSS 103.5Hz	TONE=C103.5	NAC 00D	NAC=D	NAC 00D	D	Color Code 13	13	RAN 11	RAN=11	CTCSS 103.5Hz	C103.5	NAC 00D	ND
	CTCSS 107.2Hz	TONE=C107.2	NAC 00E	NAC=E	NAC 00E	E	Color Code 14	14	RAN 12	RAN=12	CTCSS 107.2Hz	C107.2	NAC 00E	NE
	CTCSS 110.9Hz	TONE=C110.9	NAC 00F	NAC=F	NAC 00F	F	Color Code 15	15	RAN 13	RAN=13	CTCSS 110.9Hz	C110.9	NAC 00F	NF
	CTCSS 114.8Hz	TONE=C114.8	NAC 010	NAC=10	NAC 010	10			RAN 14	RAN=14	CTCSS 114.8Hz	C114.8	NAC 010	N10
	CTCSS 118.8Hz	TONE=C118.8	NAC 011	NAC=11	NAC 011	11			RAN 15	RAN=15	CTCSS 118.8Hz	C118.8	NAC 011	N11
	CTCSS 123.0Hz	TONE=C123.0	NAC 012	NAC=12	NAC 012	12			RAN 16	RAN=16	CTCSS 123.0Hz	C123.0	NAC 012	N12
	CTCSS 127.3Hz	TONE=C127.3	:	:	:	:			RAN 17	RAN=17	CTCSS 127.3Hz	C127.3	:	:
	CTCSS 131.8Hz	TONE=C131.8	:	:	:	:			RAN 18	RAN=18	CTCSS 131.8Hz	C131.8	:	:
	CTCSS 136.5Hz	TONE=C136.5	:	:	:	:			RAN 19	RAN=19	CTCSS 136.5Hz	C136.5	:	:
	CTCSS 141.3Hz	TONE=C141.3	NAC FFF	NAC=FFF	NAC FFF	FFF			RAN 20	RAN=20	CTCSS 141.3Hz	C141.3	NAC FFF	NFFF
	CTCSS 146.2Hz	TONE=C146.2	Color Code 0	ColorCode=0					RAN 21	RAN=21	CTCSS 146.2Hz	C146.2	Color Code 0	ColorCode0
	CTCSS 151.4Hz	TONE=C151.4	Color Code 1	ColorCode=1					RAN 22	RAN=22	CTCSS 151.4Hz	C151.4	Color Code 1	ColorCode1
	CTCSS 156.7Hz	TONE=C156.7	Color Code 2	ColorCode=2					RAN 23	RAN=23	CTCSS 156.7Hz	C156.7	Color Code 2	ColorCode2
	CTCSS 159.8Hz	TONE=C159.8	Color Code 3	ColorCode=3					RAN 24	RAN=24	CTCSS 159.8Hz	C159.8	Color Code 3	ColorCode3
	CTCSS 162.2Hz	TONE=C162.2	Color Code 4	ColorCode=4					RAN 25	RAN=25	CTCSS 162.2Hz	C162.2	Color Code 4	ColorCode4
	CTCSS 165.5Hz	TONE=C165.5	Color Code 5	ColorCode=5					RAN 26	RAN=26	CTCSS 165.5Hz	C165.5	Color Code 5	ColorCode5
	CTCSS 167.9Hz	TONE=C167.9	Color Code 6	ColorCode=6					RAN 27	RAN=27	CTCSS 167.9Hz	C167.9	Color Code 6	ColorCode6
	CTCSS 171.3Hz	TONE=C171.3	Color Code 7	ColorCode=7					RAN 28	RAN=28	CTCSS 171.3Hz	C171.3	Color Code 7	ColorCode7
	CTCSS 173.8Hz	TONE=C173.8	Color Code 8	ColorCode=8					RAN 29	RAN=29	CTCSS 173.8Hz	C173.8	Color Code 8	ColorCode8
	CTCSS 177.3Hz	TONE=C177.3	Color Code 9	ColorCode=9					RAN 30	RAN=30	CTCSS 177.3Hz	C177.3	Color Code 9	ColorCode9
	CTCSS 179.9Hz	TONE=C179.9	Color Code 10	ColorCode=10					RAN 31	RAN=31	CTCSS 179.9Hz	C179.9	Color Code 10	ColorCode10
	CTCSS 183.5Hz	TONE=C183.5	Color Code 11	ColorCode=11					RAN 32	RAN=32	CTCSS 183.5Hz	C183.5	Color Code 11	ColorCode11
	CTCSS 186.2Hz	TONE=C186.2	Color Code 12	ColorCode=12					RAN 33	RAN=33	CTCSS 186.2Hz	C186.2	Color Code 12	ColorCode12
	CTCSS 189.9Hz	TONE=C189.9	Color Code 13	ColorCode=13					RAN 34	RAN=34	CTCSS 189.9Hz	C189.9	Color Code 13	ColorCode13
	CTCSS 192.8Hz	TONE=C192.8	Color Code 14	ColorCode=14					RAN 35	RAN=35	CTCSS 192.8Hz	C192.8	Color Code 14	ColorCode14
	CTCSS 196.6Hz	TONE=C196.6	Color Code 15	ColorCode=15					RAN 36	RAN=36	CTCSS 196.6Hz	C196.6	Color Code 15	ColorCode15
	CTCSS 199.5Hz	TONE=C199.5	:	:					RAN 37	RAN=37	CTCSS 199.5Hz	C199.5	:	:
	CTCSS 203.5Hz	TONE=C203.5	:	:					RAN 38	RAN=38	CTCSS 203.5Hz	C203.5	:	:
	CTCSS 206.5Hz	TONE=C206.5	:	:					RAN 39	RAN=39	CTCSS 206.5Hz	C206.5	:	:
	CTCSS 210.7Hz	TONE=C210.7	RAN 0	RAN=0					RAN 40	RAN=40	CTCSS 210.7Hz	C210.7	RAN 0	RAN0
	CTCSS 218.1Hz	TONE=C218.1	RAN 1	RAN=1					RAN 41	RAN=41	CTCSS 218.1Hz	C218.1	RAN 1	RAN1
	CTCSS 225.7Hz	TONE=C225.7	RAN 2	RAN=2					RAN 42	RAN=42	CTCSS 225.7Hz	C225.7	RAN 2	RAN2
	CTCSS 229.1Hz	TONE=C229.1	RAN 3	RAN=3					RAN 43	RAN=43	CTCSS 229.1Hz	C229.1	RAN 3	RAN3
	CTCSS 233.6Hz	TONE=C233.6	RAN 4	RAN=4					RAN 44	RAN=44	CTCSS 233.6Hz	C233.6	RAN 4	RAN4
	CTCSS 241.8Hz	TONE=C241.8	RAN 5	RAN=5					RAN 45	RAN=45	CTCSS 241.8Hz	C241.8	RAN 5	RAN5
	CTCSS 250.3Hz	TONE=C250.3	RAN 6	RAN=6					RAN 46	RAN=46	CTCSS 250.3Hz	C250.3	RAN 6	RAN6
	CTCSS 254.1Hz	TONE=C254.1	RAN 7	RAN=7					RAN 47	RAN=47	CTCSS 254.1Hz	C254.1	RAN 7	RAN7
	DCS 006	TONE=D006	RAN 8	RAN=8					RAN 48	RAN=48	DCS 006	TONE=D006	RAN 8	RAN8
	DCS 007	TONE=D007	RAN 9	RAN=9					RAN 49	RAN=49	DCS 007	TONE=D007	RAN 9	RAN9
	DCS 015	TONE=D015	RAN 10	RAN=10					RAN 50	RAN=50	DCS 015	TONE=D015	RAN 10	RAN10
	DCS 017	TONE=D017	RAN 11	RAN=11					RAN 51	RAN=51	DCS 017	TONE=D017	RAN 11	RAN11
	DCS 021	TONE=D021	RAN 12	RAN=12					RAN 52	RAN=52	DCS 021	TONE=D021	RAN 12	RAN12
	DCS 023	TONE=D023	RAN 13	RAN=13					RAN 53	RAN=53	DCS 023	D023	RAN 13	RAN13
	DCS 025	TONE=D025	RAN 14	RAN=14					RAN 54	RAN=54	DCS 025	D025	RAN 14	RAN14
	DCS 026	TONE=D026	RAN 15	RAN=15					RAN 55	RAN=55	DCS 026	D026	RAN 15	RAN15
	DCS 031	TONE=D031	RAN 16	RAN=16					RAN 56	RAN=56	DCS 031	D031	RAN 16	RAN16
	DCS 032	TONE=D032	RAN 17	RAN=17					RAN 57	RAN=57	DCS 032	D032	RAN 17	RAN17
	DCS 036	TONE=D036	RAN 18	RAN=18					RAN 58	RAN=58	DCS 036	D036	RAN 18	RAN18
	DCS 043	TONE=D043	RAN 19	RAN=19					RAN 59	RAN=59	DCS 043	D043	RAN 19	RAN19
	DCS 047	TONE=D047	RAN 20	RAN=20					RAN 60	RAN=60	DCS 047	D047	RAN 20	RAN20
	DCS 050	TONE=D050	RAN 21	RAN=21					RAN 61	RAN=61	DCS 050	TONE=D050	RAN 21	RAN21
	DCS 051	TONE=D051	RAN 22	RAN=22					RAN 62	RAN=62	DCS 051	D051	RAN 22	RAN22
	DCS 053	TONE=D053	RAN 23	RAN=23					RAN 63	RAN=63	DCS 053	D053	RAN 23	RAN23
	DCS 054	TONE=D054	RAN 24	RAN=24							DCS 054	D054	RAN 24	RAN24
	DCS 065	TONE=D065	RAN 25	RAN=25							DCS 065	D065	RAN 25	RAN25
	DCS 071	TONE=D071	RAN 26	RAN=26							DCS 071	D071	RAN 26	RAN26
	DCS 072	TONE=D072	RAN 27	RAN=27							DCS 072	D072	RAN 27	RAN27
	DCS 073	TONE=D073	RAN 28	RAN=28							DCS 073	D073	RAN 28	RAN28
	DCS 074	TONE=D074	RAN 29	RAN=29							DCS 074	D074	RAN 29	RAN29
	DCS 114	TONE=D114	RAN 30	RAN=30							DCS 114	D114	RAN 30	RAN30
	DCS 115	TONE=D115	RAN 31	RAN=31							DCS 115	D115	RAN 31	RAN31
	DCS 116	TONE=D116	RAN 32	RAN=32							DCS 116	D116	RAN 32	RAN32
	DCS 122	TONE=D122	RAN 33	RAN=33							DCS 122	D122	RAN 33	RAN33
	DCS 125	TONE=D125	RAN 34	RAN=34							DCS 125	D125	RAN 34	RAN34
	DCS 131	TONE=D131	RAN 35	RAN=35							DCS 131	D131	RAN 35	RAN35
	DCS 132	TONE=D132	RAN 36	RAN=36							DCS 132	D132	RAN 36	RAN36
	DCS 134	TONE=D134	RAN 37	RAN=37							DCS 134	D134	RAN 37	RAN37
	DCS 141	TONE=D141	RAN 38	RAN=38							DCS 141	TONE=D141	RAN 38	RAN38
	DCS 143	TONE=D143	RAN 39	RAN=39							DCS 143	D143	RAN 39	RAN39
	DCS 145	TONE=D145	RAN 40	RAN=40							DCS 145	D145	RAN 40	RAN40
	DCS 152	TONE=D152	RAN 41	RAN=41							DCS 152	D152	RAN 41	RAN41
	DCS 155	TONE=D155	RAN 4											

DCS 261 TONE=D261  
DCS 263 TONE=D263  
DCS 265 TONE=D265  
DCS 266 TONE=D266  
DCS 271 TONE=D271  
DCS 274 TONE=D274  
DCS 306 TONE=D306  
DCS 311 TONE=D311  
DCS 315 TONE=D315  
DCS 325 TONE=D325  
DCS 331 TONE=D331  
DCS 332 TONE=D332  
DCS 343 TONE=D343  
DCS 346 TONE=D346  
DCS 351 TONE=D351  
DCS 356 TONE=D356  
DCS 364 TONE=D364  
DCS 365 TONE=D365  
DCS 371 TONE=D371  
DCS 411 TONE=D411  
DCS 412 TONE=D412  
DCS 413 TONE=D413  
DCS 423 TONE=D423  
DCS 431 TONE=D431  
DCS 432 TONE=D432  
DCS 445 TONE=D445  
DCS 446 TONE=D446  
DCS 452 TONE=D452  
DCS 454 TONE=D454  
DCS 455 TONE=D455  
DCS 462 TONE=D462  
DCS 464 TONE=D464  
DCS 465 TONE=D465  
DCS 466 TONE=D466  
DCS 503 TONE=D503  
DCS 506 TONE=D506  
DCS 516 TONE=D516  
DCS 523 TONE=D523  
DCS 526 TONE=D526  
DCS 532 TONE=D532  
DCS 546 TONE=D546  
DCS 565 TONE=D565  
DCS 606 TONE=D606  
DCS 612 TONE=D612  
DCS 624 TONE=D624  
DCS 627 TONE=D627  
DCS 631 TONE=D631  
DCS 632 TONE=D632  
DCS 654 TONE=D654  
DCS 662 TONE=D662  
DCS 664 TONE=D664  
DCS 703 TONE=D703  
DCS 712 TONE=D712  
DCS 723 TONE=D723  
DCS 731 TONE=D731  
DCS 732 TONE=D732  
DCS 734 TONE=D734  
DCS 743 TONE=D743  
DCS 754 TONE=D754

RAN 61 RAN=61  
RAN 62 RAN=62  
RAN 63 RAN=63  
:  
:  
:  
:  
Area 0 Area=0  
Area 1 Area=1

Note :

Discovery Detail/Summary  
If None CTCSS/DCS/NAC/RAN/Area is Analog,  
"None".

(Digital, Always exists NAC or RAN or Area code.)

Note : Tone L/O

“,L/O” is appended after ctcss/dcs  
When channel is set Tone L/O  
setting.

Ex.

DCS 261 D261 RAN 61 RAN61  
DCS 263 D263 RAN 62 RAN62  
DCS 265 D265 RAN 63 RAN63  
DCS 266 D266 : :  
DCS 271 D271 : :  
DCS 274 D274 : :  
DCS 306 D306 Area 0 Area0  
DCS 311 D311 Area 1 Area1  
DCS 315 D315  
DCS 325 D325  
DCS 331 D331  
DCS 332 D332  
DCS 343 D343  
DCS 346 D346  
DCS 351 D351  
DCS 356 D356  
DCS 364 D364  
DCS 365 D365  
DCS 371 D371  
DCS 411 D411  
DCS 412 D412  
DCS 413 D413  
DCS 423 D423  
DCS 431 D431  
DCS 432 D432  
DCS 445 D445  
DCS 446 D446  
DCS 452 D452  
DCS 454 D454  
DCS 455 D455  
DCS 462 D462  
DCS 464 D464  
DCS 465 D465  
DCS 466 D466  
DCS 503 D503  
DCS 506 D506  
DCS 516 D516  
DCS 523 D523  
DCS 526 D526  
DCS 532 D532  
DCS 546 D546  
DCS 565 D565  
DCS 606 D606  
DCS 612 D612  
DCS 624 D624  
DCS 627 D627  
DCS 631 D631  
DCS 632 D632  
DCS 654 D654  
DCS 662 D662  
DCS 664 D664  
DCS 703 D703  
DCS 712 D712  
DCS 723 D723  
DCS 731 D731  
DCS 732 D732  
DCS 734 D734  
DCS 743 D743  
DCS 754 D754

IN or Area code.

## Text/Back Color

color name	File
Aliceblue	eff7ff
Antiquewhite	f7ebd6
Aqua	00fbf7
Aquamarine	7bf9e6
Azure	efffff
Beige	eff3d6
Bisque	ffe3bd
Black	000000
Blanchedalmond	ffe3bc
Blue	0000ff
Blueviolet	8429de
Brass	b5a542
Brown	a52929
Burlywood	d6b584
Cadetblue	5a9c9c
Chartreuse	7bf900
Chocolate	ce6718
Coolcopper	d68418
Copper	bd00de
Coral	ff7f4a
Cornflower	bdefde
Cornflowerblue	6390e7
Cornsilk	fff7d6
Crimson	d61039
Cyan	00ffff
Darkblue	000084
Darkbrown	d60800
Darkcyan	008884
Darkgoldenrod	b58408
Darkgray	a5a5a5
Darkgreen	006300
Darkkhaki	b5b56b
Darkmagenta	840084
Darkolivegreen	526b29
Darkorange	ff8800
Darkorchid	9431c6
Darkred	840000
Darksalmon	e79473
Darkseagreen	8cb98c
Darkslateblue	423d84
Darkslategray	294e4a
Darkturquoise	00cace
Darkviolet	8c00ce
Deeppink	ff108c
Deepskyblue	00bfff
Dimgray	636763
Dodgerblue	188cff
Feldspar	f7cede
Firebrick	ad2121
Floralwhite	fff7ef
Forestgreen	218821
Fuchsia	f700f7
Gainsboro	d6dad6
Ghostwhite	f7f7ff
Gold	ffd600
Goldenrod	d6a118
Gray	7b7f7b
Green	007f00
Greenyellow	adff29
Honeydew	efffef
Hotpink	ff67ad
Indianred	c65a5a
Indigo	4a007b
Ivory	ffffef
Khaki	efe38c
Lavender	dee3f7
Lavenderblush	ffe3ef
Lawngreen	7fbf00
Lemonchiffon	fff7c6
Lightblue	add6de
Lightcoral	ef7f7b
Lightcyan	deffff
Lightgoldenrodyellow	f7f7ce
Lightgreen	8ceb8c
Lightgray	ced2ce
Lightpink	ffb1bd
Lightsalmon	ff9c73
Lightseagreen	18ada5
Lightskyblue	84caf7
Lightslategray	738494
Lightsteelblue	adc2d6
Lightyellow	ffffde
Lime	00ff00
Limegreen	31ca31
Linen	f7efde
Magenta	ff00ff
Maroon	7b0000
Mediumaquamarine	63caa5
Mediumblue	0000c6
Mediumorchid	b556ce
Mediumpurple	8c6fd6
Mediumseagreen	39b16b
Mediumslateblue	7367e7
Mediumspringgreen	00f794
Mediumturquoise	42cec6
Mediumvioletred	c61484
Midnightblue	18186b
Mintcream	efffff
Mistyrose	ffe3de
Moccasin	ffe3b5
Navajowhite	ffdaad

## Huge area option

Item	File
(Empty)	Empty
CTCSS/DCS/NAC	CTCSS/DCS
Favorites List Name	FL_Name
Frequency	Frequency
Number Tag	NumberTag
RF Sub System(RFSS) ID	SysSubID
Service Type	ServiceType
Site ID	SiteId
Site Name	SiteName
System Type	SystemType
System/Network ID	SystemId
TGID	TGID
Unit ID	UnitId
Unit ID Name	UnitIdName
Volume & Squelch	Volume&Squelch
WACN	WACN

## Large area option

Item	File
(Empty)	Empty
Battery Voltage	BattVoltage
CTCSS/DCS/NAC	CTCSS/DCS
Digital Error Count	D_ErrorCount
Favorites List Name	FL_Name
Frequency	Frequency
Latitude	latitude
LCN	LCN
Longitude	longitude
Noise	Noise
Number Tag	NumberTag
RF Sub System(RFSS) ID	SysSubID
RSST	Rssi
RSST Graph	Rssi Bar
Service Type	ServiceType
Site ID	SiteId
Site Name	SiteName
System Type	SystemType
System/Network ID	SystemId
TDMA Slot	TdmaSlot
TGID	TGID
Unit ID	UnitId
Unit ID Name	UnitIdName
USB1 Vbus Voltage	USB1_vbus
USB2 Vbus Voltage	USB2_vbus
Volume & Squelch	Volume&Squelch
WACN	WACN

## Small area option

Item	File
(Empty)	Empty
Attenuator	ATT
Broadcast Screen	SCR
Close Call	CC
Date	Day
Digital Status	P25Status
GPS	GPS
IF Exchange	IFX
Modulation	Modulation
P-Channel	P_Ch
Priority Scan	PRI
REC	REC
Repeater Find	REP
Squelch	Squelch
TDMA Slot	TdmaSlot
Time	Time
Volume	Volume
Volume Offset	LVL
WX Priority	WxPRI

## Icon area option

Item	File
(Empty)	Empty
Broadcast SCR	Broadcast SCR
Close Call CC	Close Call CC
GPS	GPS
IF Exchange IFX	IF Exchange IFX
Modulation Modulation	Modulation Modulation
P-channel P_Ch	P-channel P_Ch
Priority ScPRI	Priority ScPRI
Repeater REP	Repeater REP
Volume Of LVL	Volume Of LVL
WX Priority WxPRI	WX Priority WxPRI



Navy	00007b
Oldlace	f7f3de
Olive	7b7f00
Olivedrab	6b8c21
Orange	ffa100
Orangered	ff4600
Orchid	d66fd6
Palegoldenrod	e7e7a5
Palegreen	94fb94
Paleturquoise	adebe7
Palevioletred	d66f8c
Papayawhip	ffe7ce
Peachpuff	ffd0b5
Peru	c88039
Pink	ffbdc6
Plum	d69cd6
Powderblue	addede
Purple	7b007b
Red	ff0000
Richblue	08adde
Rosybrown	b58c8c
Royalblue	3967de
Saddlebrown	844610
Salmon	f77f6b
Sandybrown	efa15a
Seagreen	298852
Seashell	fff3e7
Sienna	9c5229
Silver	bdbdbd
Skyblue	84cae7
Slateblue	635ac6
Slategray	6b7f8c
Snow	fff7f7
Springgreen	00ff7b
Steelblue	4280ad
Tan	ceb18c
Teal	007f7b
Thistle	d6bdd6
Tomato	ff6342
Turquoise	39dece
Violet	e780e7
Wheat	efdaad
White	ffffff
Whitesmoke	eff3ef
Yellow	ffff00
Yellowgreen	94ca31

