

SDS100(UB383Z)

Remote Command Specification

**Version 0.01
2018/04/13**

Date	Version	Contents
2018/04/13	0.01	Created new basd BCD536HP/BCD436HP Remote Command Specification Version 1.05.

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MDL Get Model Info

Controller → Radio

(1) MDL[\r]

Radio → Controller

(1) MDL,[MODEL_NAME][\r]
[MODEL_NAME] SDS100
 SDS200

VER Get Firmware Version

Controller → Radio

(1) VER[\r]

Radio → Controller

(1) VER,[VERSION][\r]
[VERSION] Version x.xx.xx

KEY Push KEY

Controller → Radio

(1) KEY,[KEY_CODE],[KEY_MODE][\r]

Radio → Controller

(1) KEY,OK[\r]

See "key code for KEY Command" sheet for KEY_CODE.

QSH Go to quick search hold mode

Controller → Radio

(1) QSH,[FRQ][\r]

Radio → Controller

(1) QSH,OK[\r]

This command is invalid when the scanner is in Menu Mode,
during Direct Entry operation, during Quick Save operation.

STS Get Current Status

Controller → Radio

(1) STS[\r]

Radio → Controller

(1) STS,[DSP_FORM],[L1_CHAR],[L1_MODE],[L2_CHAR],[L2_MODE],
[L3_CHAR],[L3_MODE],..., [L20_CHAR],[L20_MODE],
[RSV],[RSV],[RSV],[RSV],[RSV],
[RSV],[RSV],[RSV],[RSV][\r]

Note:

STS Command is compatible with old scanner.

PSI is better than STS.

See "Font Data Specification" for not ascii character code.

JNT Jump Number tag

Controller → Radio

(1) JNT,[FL_TAG],[SYS_TAG],[CHAN_TAG][\r]

[FL_TAG]	Favorites List Number Tag	(0-99)
[SYS_TAG]	System Number Tag	(0-99)
[CHAN_TAG]	Channel Number Tag	(0-999)

Radio → Controller

(1) JNT,OK[\r]

NXT Next

Controller → Radio

(1) NXT,[tkw],[xxx1],[xxx2],[COUNT][\r]

Radio → Controller

(2) NXT,OK\r

[tkw]	see sheet "tkd and 1st,2nd opt"
[xxx1]	see sheet "tkd and 1st,2nd opt"
[xxx2]	see sheet "tkd and 1st,2nd opt"
[COUNT]	slide counts (1-8)

PRV Previous

Controller → Radio

(1) PRV,[tkw],[xxx1],[xxx2],[COUNT]\r

Radio → Controller

(2) PRV,OK\r

[tkw]	see sheet "tkd and 1st,2nd opt"
[xxx1]	see sheet "tkd and 1st,2nd opt"
[xxx2]	see sheet "tkd and 1st,2nd opt"
[COUNT]	slide counts (1-8)

FQK Get/Set Favorites List Quick Keys Status

Controller → Radio

(1) FQK\r
(2) FQK,[S0],[S1],.....[S99]\r

Radio → Controller

(1) FQK,[S0],[S1],.....[S99]\r
(2) FQK,OK\r

[Quick Key Status (S0-S99)]

0 : FLQK does not exist
1 : FLQK exists and is disabled
2 : FLQK exists and is enabled

If controller sends 0 (QK does not exist), radio will ignore 0.

SQK Get/Set System Quick Keys Status

Controller → Radio

(1) SQK,[FAV_QK]\r
(2) SQK,[FAV_QK],[S0],[S1],.....[S99]\r

Radio → Controller

(1) SQK,[FAV_QK],[SYS_QK],[S0],[S1],.....[S99]\r
(2) SQK,OK\r

[Quick Key Status (S0-S99)]

0 : SQK does not exist
1 : SQK exists and is disabled
2 : SQK exists and is enabled

If controller sends 0 (QK does not exist), radio will ignore 0.

DQK Get/Set Department Quick Keys Status

Controller → Radio

- (1) DQK,[FAV_QK],[SYS_QK][\r]
- (2) DQK,[FAV_QK],[SYS_QK],[S0],[S1],.....[S99][\r]

Radio → Controller

- (1) DQK,[FAV_QK],[SYS_QK],[S0],[S1],.....[S99][\r]
- (2) DQK,OK[\r]

[Quick Key Status (S0-S99)]

- 0 : DQK does not exist
- 1 : DQK exists and is disabled
- 2 : DQK exists and is enabled

If controller sends 0 (QK does not exist), radio will ignore 0.

PSI Push Scanner Information

format will be XML.

See PSI,GSI tab

GSI Get Scanner Information

format will be XML.

See PSI,GSI tab

GLT Get xxx list

GLT is command which PC get xx list from scanner.

See "GLT command" sheet to detail.

HLD Hold

HLD is command to hold system, department, channel.

It can't hold favorites list and site frequency.

Controller → Radio

HLD,[tkw],[xxx1],[xxx2][\r]

tkw: see sheet "tkd and 1st,2nd opt"

xxx1 see sheet "tkd and 1st,2nd opt"

xxx2 see sheet "tkd and 1st,2nd opt"

Radio → Controller
HLD,OK[\r]

AVD Set Avoid Option

AVD is command to avoid or unavoid.
It can't avoid favorites list and site frequency.

Controller → Radio
AVD,[tkw],[xxx1],[xxx2][STATUS][\r]

tkw: see sheet "tkd and 1st,2nd opt"
xxx1 see sheet "tkd and 1st,2nd opt"
xxx2 see sheet "tkd and 1st,2nd opt"

[STATUS 1:Permanent Avoid
2:Temporary Avoid
3:Stop Avoiding

Radio → Controller
AVD,OK[\r]

Note:Please use the GSI or GLT command if you need to get avoid status

SVC Get/Set Service Type Settings

Controller → Radio

(1) SVC[\r]
(2) SVC,[PST1],[PST2],...,[PST37],[CST1],...,[CST10][\r]

Radio → Controller

(1) SVC,[PST1],[PST2],...,[PST37],[CST1],...,[CST10][\r]
(2) SVC,OK[\r]

[PSTx] 0: Off (Not Scan)
1: On (Scan)

JPM Jump Mode

Controller → Radio

(1) JPM,[JUMP_MODE],[INDEX][\r]

[JUMP_MODE]	SCN_MODE CTM_MODE QSH_MODE CC_MODE WX_MODE FTO_MODE IREC_MODE UREC_MODE TDIS_MODE CDIS_MODE
[INDEX]	SCN_MODE : Chanel Index CTM_MODE : Reserve QSH_MODE : Reserve CC_MODE : Reserve WX_MODE : NORMAL A_ONLY SAME_1 SAME_2 SAME_3 SAME_4 SAME_5 ALL_FIPS FTO_MODE : Reserve IREC_MODE : Reserve UREC_MODE : Folder Name TDIS_MODE : Session Name CDIS_MODE : Session Name

※When you send the channel index of 0xFFFFFFFF,
scanner start to scan from top channel

※If temporary clock was set and go to discovery mode, scanner sends NG response.

※If temporary clock was set and go to wx alert mode, scanner sends NG response.

Radio → Controller

(1) JPM,OK[\r]

DTM Get/Set Date and Time.

Controller → Radio

(1) DTM[\r]
(2) DTM,[DayLightSaving],[YYYY],[MM],[DD],[hh],[mm],[ss][\r]

Radio → Controller

(1) DTM,[DayLightSaving],[YYYY],[MM],[DD],[hh],[mm],[ss],[RTC Status][\r]
(2) DTM,OK[\r]

[RTC Status]: 0:RTC NG
 1:RTC OK

LCR Get/Set Location and range.

Controller → Radio

- (1) LCR[\r]
- (2) LCR,[LATITUDE],[LONGITUDE],[RANGE][\r]

Radio → Controller

- (1) LCR,[LATITUDE],[LONGITUDE],[RANGE][\r]
- (2) LCR,OK[\r]

LATITUDE and LONGITUDE is degree format.

AST Analize Start

See Analize Command Tab

APR Analize Pauze/Resume

See Analize Command Tab

URC User Record Control

Controller → Radio

- (1) URC[\r]
- (2) URC,[STATUS][\r]

Radio → Controller

- (1) URC,[STATUS][\r]
- (2) URC,OK[\r]

URC,ERR,[ERROR CODE][\r]

[ERROR CODE] :

- 0001: FILE ACCESS ERROR
- 0002: LOW BATTERY
- 0003: SESSION OVER LIMIT
- 0004: RTC LOST

[STATUS] : 0:Stop, 1:Start

MNU Menu Mode

Controller → Radio

(1) MNU,[MENU_ID],[INDEX]\r

Radio → Controller

(1) MNU,OK\r

MENU_ID	INDEX	Menu Position
TOP	-	Top (Main) Menu
MONITOR_LIST	-	Select Lists to Monitor menu
SCAN_SYSTEM	Sytem Index	System Menu
SCAN_DEPARTMENT	Department Index	Department Menu
SCAN_SITE	Site Index	Site Menu
SCAN_CHANNEL	Channel Index	Channel Menu
SRCH_RANGE	Custom Bank Index	Custom Search Bank Menu
SRCH_OPT	-	Search/Close Call Opt menu
CC	-	Close Call Menu
CC_BAND	-	Clooe Call Band Menu
WX	-	WX Operation Menu
FTO_CHANNEL	FTO Channel Index	Tone out Channel Menu
SETTINGS	-	Settings Menu
BRDCST_SCREEN	-	Broadcast screen Menu

MSI Menu Status Info

Controller → Radio

(1) MSI\r

Radio → Controller

(1) MSI,<XML>,\r
<?xml version="1.0" encoding="utf-8"?>\r
<MSI Name=" Title " Index="xxxxxx" >\r
:
:
</MSI>\r

format is XML.

See sheet MSI tab

MSV Menu Set Value

Controller → Radio

(1) MSV,[RSV],[VALUE]\r

Radio → Controller

(1) MSV,OK\r

VALUE select type menu : selected item index
input type menu : inputted string

Note

Replace comma(,) to tab(\t), if value contain ,(comma).

MSB Menu Structure Back

Controller → Radio

(1) MSB,[RSV],[RET_LEVEL][\r]

Radio → Controller

(1) MSB,OK[\r]

RET_LEVEL

"RETURN_PREVIOUS_MODE"
""

exit menu mode
1 level back

Favorites List
 System
 Department
 Site
 Conventional frequency
 TGID in ID Scan
 TGID in ID Search
 Site frequency
 Avoiding TGID in ID Search
 Search Avoiding frequency
 Close Call
 WX
 Tone-Out mode
 Search with scan frequency
 CC Hits Channel
 Custom Search Bank
 Custom Search frequency
 Quick Search frequency
 Repeater Find frequency

Target Key Word	comand							
	GLT		NXT/PRV		HLD		AVD	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
FL	[none]			---		---		---
SYS	[Parent FL Index]		Sys Index	[none]	Sys Index	[none]	Sys Index	[none]
DEPT	[Parent Sys Index]		Dept Index	[Parent Sys Index]	Dept Index	[Parent Sys Index]	Dept Index	[none]
SITE	[Parent Sys Index]		Site Index	[none]	Site Index	[none]	Site Index	[none]
CFREQ	[Parent Dept Index]		Chan Index	[none]	Chan Index	[none]	Chan Index	[none]
TGID	[Parent Dept Index]		Chan Index	[none]	Chan Index	[none]	Chan Index	[none]
STGID	---		TGID	[Site Index]	TGID	[Site Index]	---	(Use ATGID)
SFREQ	[Parent Sit Index]			---		---		---
ATGID	[Parent Sys Index]			---		---	TGID	[Parent sys index]
AFREQ	[none]			---		---	[Frequency]	[none]
CC	---		[none]	[none]	[none]	[none]	---	(Use AFREQ)
WX	[none]		WX Chan Index	[none]	WX Chan Index	[none]		---
FTO	[none]		FTO Chan Index	[none]	FTO Chan Index	[none]		---
SWS_FREQ	---		Frequency	[Parent Dept Index]	Frequency	[Parent Dept Index]	---	(Use AFREQ)
CCHIT	[Parent Dept Index]		CC Chan Index	[none]	CC Chan Index	[none]	CC Chan Index	[none]
CS BANK	[none]			---		---		---
CS_FREQ	---		Frequency	[Parent Bank index]	Frequency	[Parent Bank index]	---	(Use AFREQ)
QS_FREQ	---		Frequency	[none]	Frequency	[none]	---	(Use AFREQ)
RPTR_FREQ	---		Frequency	[none]	Frequency	[none]	---	(You can't avoid Repeater Frequency)
IREC FILE	[none]			[none]	File Index	[none]	---	(You can't avoid)
UREC_FOLDER	[none]			---	(You can't select folder)	---	(You can't select folder)	---
UREC_FILE	Folder Index		File Index	[none]	File Index	[none]	---	(You can't avoid)
TRN_DISCOV	[none]			---		---	TGID	[none]
CNV_DISCOV	[none]			---		---	Frequency	[none]
BAND_SCOPE	---		Frequency	[none]	Frequency	[none]	---	---

[none] means Parameter is none.
 '---' means invalid command

- Note 1 If you want to avoid 406.0MHz in Quick Search mode,
 "AVD,AFREQ,4060000,,1¥r" is right.
 "AVD,QS_FREQ,4060000,,1¥r" is bad command.
- Note 2 If App sends "HLD","NXT" or "PRV" in Repeater Find mode, the scanner cancels Repeater Find mode and returns to previous mode(Custom Search/Quick Search/ Close Call)
- Note 3 "Unknown" department in ID Search is virtual department. You can hold, next and previous "Unknown" department but can't avoid it.
 "Unknown" department needs parent system index. Another department doesn't need parent system index. Both is OK that you set blank or system index for 2nd parameter

GLT is command which PC get xx list from scanner.

Controller → Radio

(1) GLT,FL	Favorites List								
(2) GLT,SYS,[fl_index]	System								
(3) GLT,DEPT,[system_index]	Department								
(4) GLT,SITE,[system_index]	Site								
(5) GLT,CFREQ,[dept_index]	Conventional Frequency								
(6) GLT,TGID,[dept_index]	TGID								
(7) GLT,SFREQ,[site_index]	Site Frequency								
(8) GLT,AFREQ	Search Avoiding Frequencies								
(9) GLT,ATGID,[system_index]	Search Avoiding TGID								
(10) GLT,FTO	Fire Tone Out								
(11) GLT,CS_BANK	Custom Search Bank								
(12) GLT,UREC	User Record								
(13) GLT,IREC_FILE	Inner Record File								
(14) GLT,UREC_FILE,[folder_index]	User Record File								
(15) GLT,TRN_DISCOV	Trunk Discovery								
(16) GLT,CNV_DISCOV	Conventional Discovery								

Radio → Controller

(1) GLT	FL	Index	Name	Monitor	Q_Key	N_Tag			
(2) GLT	SYS	Index	Myld	Name	Avoid	Type	Q_Key	N_Tag	
(3) GLT	DEPT	Index	Myld	Name	Avoid	Q_Key			
(4) GLT	SITE	Index	Myld	Name	Avoid	Q_Key			
(5) GLT	CFREQ	Index	Myld	Name	Avoid	Freq	Mod	SAS	SAL
(6) GLT	TGID	Index	Myld	Name	Avoid	TGID	Audio Type	SvcType	SvcType N_Tag
(7) GLT	SFREQ	Index	Freq						
(8) GLT	AFREQ	Freq	Avoid						
(9) GLT	ATGID	TGID	Avoid	index	Name	DeptName	DeptIndex		
(10) GLT	FTO	Index	Freq	Mod	Name	ToneA	ToneB		
(11) GLT	CS_BANK	Index	Name	Lower	Upper	Mod	Step		
(12) GLT	UREC	Index	Name					※Name = Folder Name	
(13) GLT	IREC_FILE	Index	Name	Time				※Name = File Name	
(14) GLT	UREC_FILE	Index	Name	Time				※Name = File Name	
(15) GLT	TRN_DISCOV	Name	Delay	Logging	Duration	CompareDB	SystemName	SystemType	SiteName TimeOutTimer AutoStore
(16) GLT	CNV_DISCOV	Name	Lower	Upper	Mod	Step	Delay	Logging	CompareDB Duration TimeOutTimer AutoStore

Short word means:
 Q_Key : Quick Key
 N_Tag : Number Tag
 Freq : Frequency
 Mod : Modulation
 SAS : Sub Audio Setting (CTCSS/DCS/P25NAC/Color Code/RAN, Area)

Avoid
 Off
 T-Avoid

※Name = Session Name
 ※Name = Session Name

The Index is kind of handle. PC uses index to Hold and Avoid

Myld is like RRDB ID.

format will be XML.

```
ex  
GLT,FL¥r  
GLT,<XML>,¥r  
<?xml version="1.0" encoding="utf-8"?>¥r  
<GLT>¥r  
  <FL Index="0" Name="Favorites List 1" Monitor="On" Q_Key="1" N_Tag="None" />¥r  
  <FL Index="1" Name="Favorites List 2" Monitor="On" Q_Key="2" N_Tag="2" />¥r  
  <FL Index="2" Name="Favorites List 3" Monitor="Off" Q_Key="3" N_Tag="999" />¥r  
</GLT>¥r
```

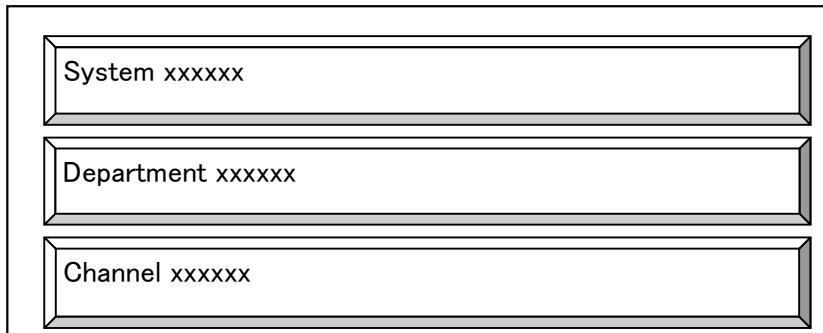
PC/Tablet App need scanner internal information to show.

If the scanner receives GSI command, it will send scanner internal information.
Scanner internal information is like XML.

If the scanner receive PSI command, it outputs information periodically.
User can change interval by parameter.

[Ex .scan mode]

```
<?xml version="1.0" encoding="utf-8"?>
<ScannerInfo Mode="Trunk Scan Hold" V_Screen="trunk_scan">
    <MonitorList Name="Full Database" Index="4294967295" ListType="FullID" Q_Key="None" N_Tag="None" DB_Counter="3" />
    <System Name="Calcasieu" Index="283" Avoid="Off" SystemType="Conventional" Q_Key="None" N_Tag="None" Hold="On" />
    <Department Name="Calcasieu Parish - Parish Fire & Medical" Index="286" Avoid="Off" Q_Key="None" Hold="Off" />
    <ConvFrequency Name="DeQuincy Fire Department" Index="290" Avoid="Off" Freq="154.4150MHz"
        Mod="NFM" N_Tag="None" Hold="On" SvcType="Fire Dispatch" P_Ch="Off" SAS="All" SAD="None" LVL="0" IFX="Off" />
    <AGC A_AGC="Off" D_AGC="Off" />
    <DualWatch PRI="Off" CC="Off" WX="Off" />
    <Property
        VOL="0" SQL="9" Sig="0"
        WiFi="3" Att="Off" Rec="Off"
        KeyLock="Off" P25Status="None"
        Mute="Mute" Backlight="100"
        Rssi="0.377"
    />
    <ViewDescription>
        <InfoArea1 Text="F0:01234-6*789" />
        <InfoArea2 Text="S3:01234-6*---" />
        <PopupScreen Text="Quick Save?\n" />
    </ViewDescription>
</ScannerInfo>
```



see [PSI, GSI Element](#)
[PSI, GSI Attribute](#)
[Attribute \(ViewDescription\)](#)

All mode Elements

ScannerInfo

Property

AGC

DispFormat

ViewDescription (when the radio is viewing override area)

ReplayDescription (when the radio is in REPLAY mode)

ScannerInfo is the root node.

Depend on mode elements

	Scan mode			Search			Signal	Temporary	Discovery	Analyze								
	conventional_scan	trunk_scan	custom_with_scan	cchits_with_scan	custom_search	quick_search	close_call	cc_searching	tone_out	wx_alert	reverse_frequency	repeater_find	discovery_conventional	discovery_trunking	analyze_system_status	rf_power_plot	analyze	band_scope
MonitorList	-	O	O	O	-	-	-	-	-	-	-	-	-	-	-	-	-	
System	-	O	O	O	-	-	-	-	-	-	-	-	-	-	-	-	-	
Department	-	O	O	O	-	-	-	-	-	-	-	-	-	-	-	-	-	
Site	-	O	O	O	-	-	-	-	-	-	-	-	-	-	-	-	-	
ConvFrequency	O	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TGID	-	O	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SiteFrequency	-	O	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SrchFrequency	-	-	O	-	O	O	O	-	-	O	O	O	-	-	-	-	-	
CcHitsChannel	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	
DualWatch	O	O	O	O	O	O	O	O	O	O	O	O	-	-	-	-	-	
SearchRange	-	-	O	-	O	O	O	O	O	O	O	O	-	-	-	-	-	
SearchBanks	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	
CC_Bands	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	
CC_Counters	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	
ToneOutChannel	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	
WxChannel	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	
WxMode	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	
ConventionalDiscovery	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	
TrunkingDiscovery	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	
SystemStatus	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	
RfPowerPlot	=	=	=	=	=	=	=	=	=	=	=	=	O	-	O	=	=	
Analyze	-	-	-	-	-	-	-	-	-	-	-	-	O	-	O	-	-	
BandScope	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	O	
BandScopeRange	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	O	O	

Elements in ViewDescription

InfoArea1
InfoArea2
OverWrite
PopupScreen
PlainText

Elements in ReplayDescription

File
ReplayMode

ScannerInfo	Attribute Name	Value	
	Mode		Scan Mode Scan Hold Tone-Out Custom Search Custom Search Hold Quick Search Quick Search Hold Service Scan Service Scan Hold Trunk Scan Trunk Scan Hold Close Call Only Close Call Menu tree
	V_Screen		
Property	Attribute Name	Value	
	F	Off/On	
	VOL	0-29 or 0-15	
	SQL	0-19 or 0-15	
	Sig	0-4	
	WiFi	Off / 0-3 / AP	
	Battery	0.0-3.3	
	Att	Off/On/G-Att	
	Rec	Off/On	
	KeyLock	Off/On	
	P25Status	None/Data/P25/DMR/CAP/CON/DT3/XPT /NX9/NX4/ND9/ND4/IDS/NXD	
	Mute	Unmute/Mute	
	A_Led	Off/Blue/Red/Magenta/Green/Cyan/Yellow/White	
	Dir	Up/Down	
	Rssi	0-	
AGC	Attribute Name	Value	
	A_AGC	Off/On	plain_text conventional_scan trunk_scan custom_with_scan cchits_with_scan custom_search quick_search close_call cc_searching tone_out wx_alert discovery_conventional discovery_trunking reverse_frequency repeater_find direct_entry menu_selection menu_input analyze_system_status analyze
	D_AGC	Off/On	
DualWatch	Attribute Name	Value	
	PRI	Off/DND/Priority	
	CC	Off/DND/Priority	
	WX	Off/Priority	
MonitorList	Attribute Name	Value	
	Name	ASCII code , Max length 64	
	Index	0-	
	ListType	FullDb/FL/SWS	
	Q_Key	0-99/None	
	N_Tag	0-99/None	
	DB_Counter	0-65535, if counter overs 65535, counter will be 0.	
System	Attribute Name	Value	
	Name	ASCII code , Max length 64	Conventional Motorola EDACS LTR P25 Trunk P25 One Frequency MotoTRBO Trunk
	Index	0-	
	Avoid	Off/T-Avoid/Avoid	
	SystemType		
	Q_Key	0-99/None	
	N_Tag	0-99/None	
	Hold	Off/On	
Department	Attribute Name	Value	
	Name	ASCII code , Max length 64	

Index	0-	DMR One Frequency
Avoid	Off/T-Avoid/Avoid	NXDN Trunk
Q_Key	0-99/None	NXDN One Frequency
Hold	Off/On	

Site

Name	ASCII code , Max length 64
Index	0-
Avoid	Off/T-Avoid/Avoid
Q_Key	0-99/None
Hold	Off/On
Mod	Auto/NFM/FM

ConvFrequency

Name	ASCII code , Max length 64
Index	0-
Avoid	Off/T-Avoid/Avoid
Freq	xxxx.xxxxMHz
Mod	Auto/AM/NFM/FM/WFM/FMB
N_Tag	0-999/None
Hold	Off/On
SvcType	See Sheet : "Service type"
P_Ch	Off/On
SAS	See Sheet : "Sub Audio"
SAL	Off/On
SAD	See Sheet : "Sub Audio"
RecSlot	Slot 1/2/None
LVL	-3/-2/-1/0/1/2/3
IFX	Off/On
TGID	TGID xxxx/None
U_Id	UID xxxx/None

TGID

Name	ASCII code , Max length 64
Index	0-
Avoid	Off/T-Avoid/Avoid
TGID	TGID:xxxx
SetSlot	Slot 1/2/Any
RecSlot	Slot 1/2/None
N_Tag	0-999/None
Hold	Off/On
SvcType	See Sheet : "Service type"
P_Ch	Off/On
LVL	-3/-2/-1/0/1/2/3

SiteFrequency

Freq	xxxx.xxxxMHz
SAS	See Sheet : "Sub Audio"
SAD	See Sheet : "Sub Audio"
IFX	Off/On

SearchBanks

Attribute Name	Value
Index	0-9
BankStatus	xxxxxxxxx : 0=Off/ 1=On order=0123456789
Name	ASCII code , Max length 64
BankNo	0-9

CC_Bands

Attribute Name	Value
----------------	-------

BandStatus xxxxxxx : 0=Off/ 1=On order=0123456

SrchFrequency

Attribute Name	Value
Avoid	Off/T-Avoid/Avoid
Freq	xxxx.xxxxMHz
Mod	Auto/AM/NFM/FM/WFM/FMB
Hold	Off/On
SAD	See Sheet : "Sub Audio"
RecSlot	Slot 1/2/None
TGID	TGID xxxx/None
U_Id	UID xxxx/None
IFX	Off/On

CcHitsChannel

Attribute Name	Value
Name	ASCII code , Max length 64
Index	0-
Avoid	Off/T-Avoid/Avoid
CH_No	0-9
Freq	xxxx.xxxxMHz
Mod	Auto/AM/NFM/FM/WFM/FMB
Hold	Off/On
SAD	See Sheet : "Sub Audio"
LVL	-3/-2/-1/0/1/2/3
IFX	Off/On

SearchRange

Lower	xxxx.xxxxMHz
Upper	xxxx.xxxxMHz
Mod	Auto/AM/NFM/FM/WFM/FMB
Step	

ToneOutChannel

Name	ASCII code , Max length 64
Index	1-
CH_No	0-31
Freq	xxxx.xxxxMHz
Mod	Auto/AM/NFM/FM/WFM/FMB
Hold	Off/On
LVL	-3/-2/-1/0/1/2/3
IFX	Off/On
ToneA	xxxxHz
ToneB	xxxxHz

WxMode

Mode	"Monitor Weather" or "Weather Alert"
SAME	"Alert Only" or SAME group name

WxChannel

Name	ASCII code , Max length 64
Index	0-
CH_No	1-7
Freq	xxxx.xxxxMHz
Mod	FM
Hold	Off/On
LVL	-3/-2/-1/0/1/2/3
IFX	Off/On

ConventionalDiscovery

Lower	xxxx.xxxxMHz
Upper	xxxx.xxxxMHz
Mod	Auto/AM/NFM/FM/WFM/FMB
Step	
Freq	xxxx.xxxxMHz
SAD	See Sheet : "Sub Audio"
RecSlot	Slot 1/2/None
PastTime	
HitCount	
TGID	TGID xxxx/None
U_Id	UID xxxx/None
IFX	Off/On

TrunkingDiscovery

SystemName	ASCII code , Max length 64
SiteName	ASCII code , Max length 64
TGID	
TgidName	
SAD	See Sheet : "Sub Audio"
RecSlot	Slot 1/2/None
PastTime	
HitCount	
U_Id	UID xxxx/None

SystemStatus

SystemName	ASCII code , Max length 64
SiteName	ASCII code , Max length 64
Signal	0-100
Quality	0-100
Activity	0-100
SystemID	0-0x1FFFF
SystemSubID	0-99
SiteID	0-4095
WacnID	0-0xFFFFF
NAC	0-0xFFF
Color	0-15
RAN	0-63
Area	0-1
Att	Off/G-Att
Freqs	0-16
P25Status	None/Data/P25/DMR/CAP/CON/DT3/XPT /NX9/NX4/ND9/ND4/IDS/NXD

RfPowerPlot

Frequency	xxxx.xxxxMHz
Modulation	Auto/AM/NFM/FM/WFM/FMB
SampleRate	100ms/200ms/400ms/800ms
Att	Off/G-Att
B01	0 - 100
B02	0 - 100
B03	0 - 100
B04	0 - 100
B05	0 - 100
B06	0 - 100
B07	0 - 100
B08	0 - 100
B09	0 - 100
B10	0 - 100
B11	0 - 100
B12	0 - 100
B13	0 - 100
B14	0 - 100

B15	0 – 100
B16	0 – 100
B17	0 – 100
B18	0 – 100
B19	0 – 100
B20	0 – 100
B21	0 – 100
B22	0 – 100
B23	0 – 100
B24	0 – 100
B25	0 – 100
B26	0 – 100
B27	0 – 100
B28	0 – 100
B29	0 – 100
B30	0 – 100
B31	0 – 100
B32	0 – 100
B33	0 – 100
B34	0 – 100

Analyze

Msg1	ASCII code , Max length 64
Msg2	ASCII code , Max length 64
SystemName	ASCII code , Max length 64
SiteName	ASCII code , Max length 64
Att	Off/G-Att

※Used by following mode

- LCN Finder
- Current Activity
- LCN Monitor
- Activity Log

BandScope

Msg1	ASCII code , Max length 64
Msg2	ASCII code , Max length 64
Span	0.2MHz/0.4MHz/0.6MHz/0.8MHz/1MHz/2MHz/ 4MHz/6MHz/8MHz/10MHz/20MHz/40MHz/ 60MHz/80MHz/100MHz/200MHz
Hold	On/Off
Att	Off/G-Att

BandScopeRange

Lower	xxxx.xxxxMHz
Upper	xxxx.xxxxMHz
Mod	Auto/AM/NFM/FM/WFM/FMB
Step	5kHz/6.25kHz/7.5kHz/833kHz/10kHz/12.5kHz/ 15kHz/20kHz/25kHz/50kHz/100kHz

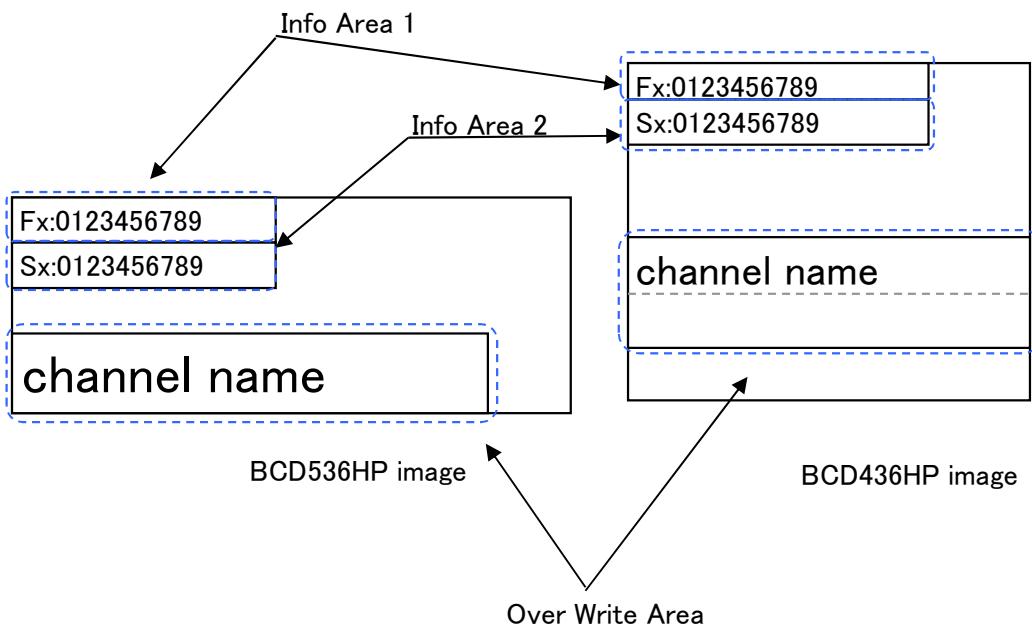
<<Info Area and Override>>

Scanner has special view area on main screen.

Info Area 1 and Info Area 2 are displayed Quick keys status in scan mode or Banks status in custom search mode.

Over Write Area is displayed error message or scanning message on channel name area.

```
<ViewDescription>
  <InfoArea1 Text="F0:01234-6*789" />
  <InfoArea2 Text="S3:01234-6*---" />
  <OverWrite Text="No thing to scan">
</ViewDescription>
```



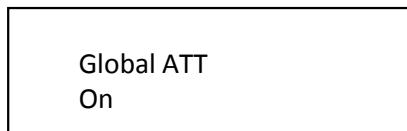
<<Popup Screen>>

Scanner has popup screen. It shows temporary view for 1-2 seconds.

The popup screen is shown on main screen.

It is like toaster in Android OS.

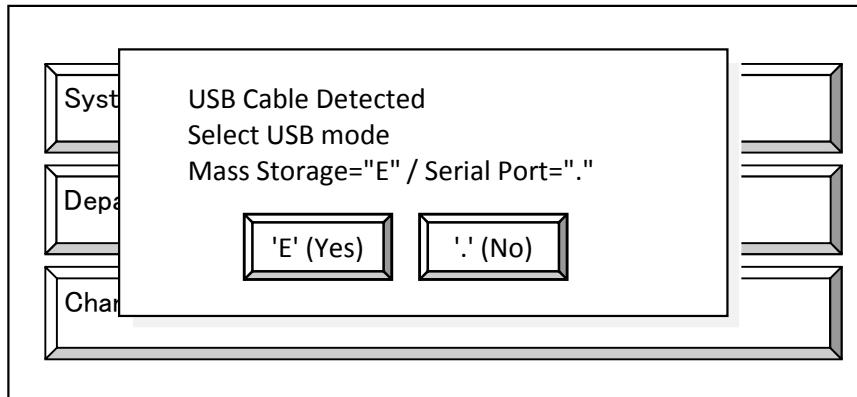
```
<ViewDescription>
  <PopupScreen Text="Global ATT\nOn"/>
</ViewDescription>
```



Popup screen has a few buttons.
This popup screen is not cleared automatically.
Scanner waits pressed button by user.

It is like Dialog box.

```
<ViewDescription>
  <PopupScreen Text="USB Cable Detected&#xD;
    Select USB mode&#xD;&#xD;Mass Storage="E"/ Serial Port=".">
    <Button Text=""E" (Yes)" KeyCode="E" />
    <Button Text=""." (No)" KeyCode="." />
  </PopupScreen>
```



In this case Popup screen has 2 buttons.

If 'E' (Yes) button is pressed, App shoud send "KEY,E,P".
E is KeyCode.

<<PlainText view>>

Plain Text view is kind of view mode in main screen.

ex.

```
<ViewDescription>
  <PlainText Text="Copyright 2014"/>
  <PlainText Text="Uniden America Corp."/>
  <PlainText Text="All Rights Reserved."/>
  <PlainText Text="" />
</ViewDescription>
```

<< ReplayDescription >>

```
<ReplayDescription>
  <File Index="2" />
  <ReplayMode Mode="USER_REC" />
</ReplayDescription>
```

Basic Rule for Response scanner information

MyId

The system, department, site and channel on Full Database have MyId.

The system, department, site and channel copied from full database have MyId.

But system, department, site and channel which user created don't have MyId.

MyId relates RadioReference ID.

ID is shown xxId=xx.

e.x.

CountyId=5

AgencyId=15

ID list

HPDB ID	description	RRDB ID
CountyId	Conventional System (County)	ctid
AgencyId	Conventional System (Agency)	aid
TrunkId	Trunked System	sid
CGroupId	Conventional Department	scid
CFreqId	Conventional Frequency	fid
SiteId	Trunked Site	siteId
TGroupId	Trunked Department	tgCid
Tid	Trunked Channel	tgId

Note :

Search with Scan doesn't have MyId.

Index

The index will be used, when you hold or avoid system, department and channel.

It is decided when data is downloaded to RAM. It is invalid if DB_Counter differs.

Name

ASCII code (20h-7eh)

Max Length 64 characters

AST Analize Start

■ Current Activity**Controller → Radio**

AST,CURRENT_ACTIVITY,[Site Index]¥r

Radio → Controller

format will be XML.

Data is sent in 200ms interval

C-Ch

No	LCN	Frequency	SystemID	SiteID	TGID Type
V-Ch					

V-Ch

No	LCN	Frequency	TGID	Unit ID	MOD	TGID Type

Parameter

LCN	:	LCN(decimal)
Freq	:	Frequency
TGID	:	Talk Group ID(decimal)
Unit ID	:	Unit ID(decimal)
MOD	:	Mode
		Analog
		Digital
		Encrypted
TgidType	:	Talk Group ID type
		Control Channel
		Encrypted
		Patch
		Unknown
		TGID
		I-CALL
SystemID	:	System ID(hex)
SiteID	:	Site ID(decimal)

XML example

AST,<XML>¥r

<?xml version="1.0" encoding="utf-8"?>¥r<AST>¥r<CurrentActivity LCN="1" Freq="851.0125" SystemID="0001h" SiteID="0" TgidType="Control Channel" />¥r<CurrentActivity LCN="2" Freq="851.0375" TGID="16" UnitID="32" MOD="Analog" TgidType="TGID" />¥r<CurrentActivity LCN="3" Freq="851.0625" TGID="64" UnitID="128" MOD="Analog" TgidType="TGID" />¥r<CurrentActivity LCN="32" Freq="851.6125" TGID="256" UnitID="512" MOD="Analog" TgidType="TGID" />¥r</AST>¥r

※Before sending AST command, please go to Scan Mode to load the hpdb data

■ LCN Monitor**Controller → Radio**

AST,LCN_MONITOR,[Site Index]¥r

Radio → Controller

format will be XML.

Data is sent in 1s interval

No	LCN	Frequency	Status

Parameter

LCN	:	LCN(decimal)
Freq	:	Frequency
ReceiveStaus	:	1 or 0

XML example

AST,<XML>¥r

<?xml version="1.0" encoding="utf-8"?>¥r<AST>¥r<LcnMonitor LCN="1" Freq = "851.0125" ReceiveStaus="1" />¥r<LcnMonitor LCN="2" Freq = "851.0250" ReceiveStaus="0" />¥r<LcnMonitor LCN="3" Freq = "851.0375" ReceiveStaus="0" />¥r<LcnMonitor LCN="4" Freq = "851.0500" ReceiveStaus="0" />¥r<LcnMonitor LCN="5" Freq = "851.0625" ReceiveStaus="0" />¥r<LcnMonitor LCN="32" Freq = "851.4000" ReceiveStaus="0" />¥r</AST>¥r

※Before sending AST command, please go to Scan Mode to load the hpdb data

■ Activity Log

※ If temporary clock was set and go to activity log mode, scanner sends NG response.

Controller → Radio

AST.ACTIVITY_LOG,[Site Index]#r

Radio → Controller

AST.ACTIVITY_LOG,[Time],[Data],[Message],[Description]

Parameter

Time : MM/DD/YYYY hh:mm:ss
 Data : Received raw data (depends on system type)
 Message : Message type (Depends on system type)
 Description1~5 : Message description (depends on system type). Number of description is depends on message type.

【Motorola】

Data
<cmd>/<prv>/<id>
cmd : command field 0~1023(decimal)
prv : private bit 0 or 1
id : id field 0~65535(decimal)

Message	Description1	Description2	Description3	Description4	Description5
System ID	Sid:				
Site ID	Site:				
Talkgroup Voice Channel Grant	Tid:	Uid:	Lcn:	Sts:	Mod:
Talkgroup Voice Channel Grant Update	Tid:		Lcn:	Sts:	
I-Call Voice Channel Grant Update	Uid:		Lcn:		
Individual Call	Uid:	Uid:	Lcn:		
Patch/MultiSelect Voice Channel Grant	Pid:	Uid:	Lcn:	Sts:	Mod:
Patch/Multiselect Voice Channel Grant Update	Pid:		Lcn:	Sts:	
Patch List	Pid:		Mid		
Patch Cancel	Pid:				
Control					
First OSW					
Receive Error					

Description

Sid : System ID(hex)
 Site : Site ID(decimal)
 Tid : Talk Group ID(decimal)
 Uid : Unit ID(decimal)
 Pid : Patch ID(decimal)
 Mid : Patch Member ID (decimal)
 Lcn : LCN(decimal)
 Sts : Status bit
 Normal Talkgroup
 All Talkgroup
 Emergency
 Talkgroup Patch
 Emergency Patch
 Emergency Multi-Group
 Multi-Select
 DES Encryption Talkgroup
 DES All Talkgroup
 DES Emergency
 DES Talkgroup Patch
 DES Emergency Patch
 DES Emergency Multi-Group
 Multi-Select DES TG
 Mod : Modulation
 Analog
 Digital

【P25 Standard】

Data
<opecode>/<data>
opecode opecode 1byte:00~FF(hex)
data TSBK 12bytes:00000000000000000000000000000000~FFFFFFFFFFFFFF(hex)

Message	Description1	Description2	Description3	Description4	Description5
Group Voice Channel Grant	Lcn:	Gad:	Sad:		
Group Voice Channel Grant Explicit	LcnT:	Gad:	Sad:	LcnR:	
Group Voice Channel Grant Update	Lcn:	Gad:	Lcn:	Gad:	
Group Voice Channel Grant Update Explicit	LcnT:	LcnR:	Gad:		
Unit To Unit Voice Channel Grant	Lcn:	Tad:	Sad:		
Unit To Unit Voice Channel Grant Extended	LcnT:	Tad:	Sad:	LcnR:	
Unit To Unit Answer Request	Tad:	Src:			
Unit To Unit Answer Request Extended	Tad:	Src:			
Unit To Unit Voice Channel Grant Update	Lcn:	Tad:	Sad:		
Unit To Unit Voice Channel Grant Update Extended	LcnT:	Tad:	Sad:	LcnR:	
Telephone Voice Channel Grant					

Telephone Interconnect Answer Request					
Identifier Update for X2TDMA					
Individual Data Channel Grant					
Group Data Channel Grant					
Group Data Channel Announcement					
Group Data Channel Announcement Explicit					
SNDCP Data Channel Grant					
SNDCP Data Page Request					
SNDCP Data Channel Announcement Explicit					
Status Update					
Status Query					
Message Update					
Radio Unit Monitor Command					
Call Alert					
Acknowledge Response FNE					
Queued Response					
Extended Function Command					
Deny Response					
Group Affiliation Response					
Secondary Control Channel Broadcast Explicit					
Group Affiliation Query					
Location Registration Response					
Unit Registration Response					
Unit Registration Command					
Authentication Command					
De-Registration Acknowledge					
Identifier Update for TDMA	Iden:	Type:	Tofs:	Csp:	Bfrq:
Identifier Update for VHF/UHF Bands					
Time and Date Announcement	Iden:	Bw:	Tofs:	Csp:	Bfrq:
Roaming Address Command					
Roaming Address Update					
System Service Broadcast					
Secondary Control Channel Broadcast					
RFSS Status Broadcast	Sid:	Sub:	Site:	Lcn:	
RFSS Status Broadcast Extended	Sid:	Sub:	Site:	LcnT:	LcnR:
Network Status Broadcast	Wacn:	Sid:	Lcn:		
Network Status Broadcast Extended	Wacn:	Sid:	LcnT:	LcnR:	
Adjacent Status Broadcast					
Identifier Update for non-VHF/UHF Bands	Iden:	Bw:	Tofs:	Csp:	Bfrq:
Protection Parameter Broadcast					
Protection Parameter Update					
Receive Error					

Description

Lcn : LCN(decimal)
 LcnT : Transmit channel LCN(decimal)
 LcnR : Receive channel LCN(decimal)
 Gad : Group Address(decimal)
 Sad : Source Address(decimal)
 Tad : Target Address(decimal)
 Src : Source ID(decimal)
 Iden : Identifier(decimal)
 Bw : Band Width(decimal)
 Tofs : Transmit Offset(decimal)
 Csp : Channel Spacing(decimal)
 Bfrq : Base Frequency(decimal)
 Sid : System ID(hex)
 Sub : RF Sub-system ID(decimal)
 Site : Site ID(decimal)
 Wacn : WACN ID(hex)
 Type : Channel Type(decimal)

【EDACS】

Data			
"<data>"	data	message data	28bits:0000000-FFFFFF(hex)

Message	Description1	Description2	Description3	Description4	Description5
Site ID	Site:		Lcn:		
Talkgroup Voice Channel Grant	Tid:	Uid:	Lcn:	Sts:	
Talkgroup Voice Channel Grant Update	Tid:		Lcn:	Sts:	
I-Call Voice Channel Grant Update	Uid:		Lcn:	Sts:	
Patch Voice Channel Grant	Pid:	Uid:	Lcn:	Sts:	
Patch Voice Channel Grant Update	Pid:		Lcn:	Sts:	
Patch List	Pid:	Mid:			
First OSW					
Receive Error					

Description

Site : Site ID(decimal)
 Tid : Talk Group ID(decimal 1-2047: AFS, decimal 2048-65535: Decimal)
 Uid : Unit ID(decimal)
 Pid : Patch ID(decimal)
 Mid : Patch Member ID (decimal)

Lcn : LCN(decimal)
 Sts : Status bit
 Normal Talkgroup
 Talkgroup Patch
 Emergency
 Emergency Patch
 Digital Talkgroup
 Digital Patch
 Digital Emergency
 Digital Emergency Patch
 I-Call
 Digital I-Call

【LTR】

Data					
<data>					
data	<area_code>/<goto>/<home>/<id>/<free>				
area code	Area Code	0 or 1			
goto	Goto Repeater	0-31(decimal)			
home	Home Repeater	0-31(decimal)			
id	Id Field	0-255(decimal)			
free	Free Repeater	0-31(decimal)			
Message		Description1	Description2	Description3	Description4
Talkgroup Voice Channel Grant Update	Tid:	Rpt:	Goto:	Free:	
Turn-off Code	Tid:	Rpt:	Goto:	Free:	

Tid : Talk Group ID (Area-Home-Id)
 Rpt : Transmitting Repeater
 Goto : Goto Repeater
 Free : Free Repeater

【DMR/MotoTRBO】

Data					
<opcode>/<fid>/<id>/<ch>/<slot>/<prv>/<emergency>"					
opcode	Full/Short Link Control Opcode	00-3F (Hex)			
	Control Signal Block Opcode	00-3F (Hex)			
fid	Feature ID	00(DMR), 06(Connect Plus), 10(Capacity Plus) (Hex)			
id	TGID	0-16777215 (Decimal)			
ch	LCN	0-4095 (Decimal)			
slot	TDMA Slot	1 or 2 or 15(None) (Decimal)			
prv	Privacy	0 or 1			
emergency	Emergency	0 or 1			
Message		Description1	Description2	Description3	Description4
Talkgroup Voice Channel Grant	Tid:	Uid:	Color Code:	Lcn:	Slot:
Talkgroup Voice Channel Link Control	Tid:	Uid:	Color Code:	Lcn:	Slot:
Unit to Unit Voice Channel Grant	Uid Src:	Uid Dst:	Color Code:	Lcn:	Slot:
Unit to Unit Voice Channel Link Control	Uid Src:	Uid Dst:	Color Code:	Lcn:	Slot:
Broadcast Talkgroup Voice Channel Grant	Tid:	Uid:	Color Code:	Lcn:	Slot:
Capacity Plus Voice Channel Grant	Tid:	Uid:	Color Code:	Lcn:	Slot:
Capacity Plus Update	Sid:	Site:	Color Code:	Lcn:	Slot:
Capacity Plus Site ID	Sid:	Site:	Color Code:	Lcn:	Slot:
Linked Capacity Plus Site ID	Sid:	Site:	Color Code:	Lcn:	Slot:
Connect Plus Voice Channel Grant	Tid:	Uid:	Color Code:	Lcn:	Slot:
Connect Plus Update					
Connect Plus Network ID	Sid:	Site:	Color Code:	Lcn:	Slot:
DMR Network ID	Sid:	Site:	Color Code:	Lcn:	Slot:
Idle					

Description
 Sid : Network ID (Hex)
 Site : Site ID (Decimal)
 Tid : Talk Group ID (Decimal)
 Uid : Unit ID (Decimal)
 Uid Src : Source Unit ID (Decimal)
 Uid Dst : Destination Unit ID (Decimal)
 Color Code : Color Code (Decimal)
 Lcn : LCN (Decimal)
 Slot : TDMA Slot (Decimal)

※Before sending AST command, please go to Scan Mode to load the hpdb data

【NXDN】

Data					
<call type>/<home ch>/<id>/<ch>/<prv>/<emergency>"					
call type	Call Type	0-7 (Decimal)			
home ch	Home Channel	0-31 (IDAS only, Decimal)			
id	TGID	NEXEDGE: 0-65535, IDAS: 0-2047 (Decimal)			
ch	LCN	0-1023 (Decimal)			

prv	Privacy	0 or 1
emergency	Emergency	0 or 1

Message	Description1	Description2	Description3	Description4	Description5
Replying to requesting communication	Tid:	Uid:	Area Code:	Home Ch:	
	Uid Src:	Uid Dst:	Area Code:	Home Ch:	
Performing voice communication	Tid:	Uid:	RAN: or Area Code:		
	Uid Src:	Uid Dst:	RAN: or Area Code:		
Sending Encryption init vector					
Assignment of traffic channel to VC	Tid:	Uid:	RAN: or Area Code:	LCN: or Home Ch:	
	Uid Src:	Uid Dst:	RAN: or Area Code:	LCN: or Home Ch:	
Existence of assigned traffic channel to VC	Tid:	Uid:	RAN: or Area Code:	LCN: or Home Ch:	
	Uid Src:	Uid Dst:	RAN: or Area Code:	LCN: or Home Ch:	
Transmission released					
Idle					
Disconnecting					
Site configuration information	Sys:	Site:	RAN:	Cch LCN: or DFA	
Service information which site provides	Sys:	Site:	RAN:		
Information of site's control channel	Sys:	Site:	RAN:	Cch LCN: or DFA	
IDAS go to Repeater	Tid:	Uid:	Area Code:	Go to Repeater:	
	Uid Src:	Uid Dst:	Area Code:	Go to Repeater:	

Description

Sys	:	System ID (Decimal)
Site	:	Site ID (Decimal)
Tid	:	Talk Group ID (Decimal)
Uid	:	Unit ID (Decimal)
Uid Src	:	Individual Call Source Unit ID (Decimal)
Uid Dst	:	Individual Call Destination Unit ID (Decimal)
RAN	:	NEXEDGE RAN (Decimal)
Area Code	:	IDAS Area Code (Decimal)
LCN	:	NEXEDGE LCN (Decimal)
Go to Repeater	:	IDAS Repeater Channel (Decimal)
Home Ch	:	IDAS Home Channel (Decimal)
Cch LCN	:	NEXEDGE Control Channel (Decimal)
DFA	:	NEXEDGE Direct Frequency Assignment

*Before sending AST command, please go to Scan Mode to load the hpdb data

■ LCN Finder

Controller → Radio

AST,LCN_FINDER,[Site Index]¥r

Radio → Controller

format will be XML.

Data is sent in 500ms interval

Parameter

Freq : Frequent

AccuracyStatus : Accuracy Level (Total 30 status)
0 : Unknown
1 : Level 1
2 : Level 2
3 : Level 3
4 : Level 4
5 : Found
6 : Disable

Condition : Searching
All Lcn Found

XML example

※Before sending AST command, please go to Scan Mode to load the hpdb data

■ Band Scope

Data is sent in 10ms interval

Controller → Radio

AST,B,D_SCOPE,[Center frequency],[Span],[Step],[Modulation]¥r