

Activity Log Display Format

【General】

Format:

Time	Message	Description
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Parameter:

Time hh:mm:ss
 Message Message type (Depends on system type)
 Description Message description (depends on system type).

【Motorola】

Message Type	Message	Description
System ID	System ID	Sid:?
Site ID	Site ID	Site:?
Talkgroup Voice Channel Grant	TG Grant	Tid:?, Uid:?, Lcn:?, Sts:?, Mod:?
Talkgroup Voice Channel Grant Update	TG Update	Tid:?, Lcn:?, Sts:?
I-Call Voice Channel Grant Update	I-Call	Uid:?, Lcn:?
Individual Call	Individual	Uid:?, Uid:?, Lcn:?
Patch/MultiSelect Voice Channel Grant	Pat Grant	Pid:?, Uid:?, Lcn:?, Sts:?, Mod:?
Patch/MultiSelect Voice Channel Grant Update	Pat Update	Pid:?, Lcn:?, Sts:?
Patch List	Pat List	Pid:?, Mid:?
Patch Cancel	Pat Cancel	Pid:
Control	Control	
First OSW	First OSW	
Receive Error	Receive Error	

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

N	(Normal Talkgroup)
A	(All Talkgroup)
E	(Emergency)
P	(Talkgroup Patch)
EP	(Emergency Patch)
EG	(Emergency Multi-Group)
M	(Multi-Select)
D	(DES Encryption Talkgroup)
DA	(DES All Talkgroup)
DE	(DES Emergency)
DP	(DES Talkgroup Patch)
DEP	(DES Emergency Patch)
DEG	(DES Emergency Multi-Group)
DM	(Multi-Select DES TG)

Mod: Modulation

A	(Analog)
D	(Digital)
E	(Encryption)

【P25 Standard】

Message Type	Message	Description1
Group Voice Channel Grant	GVCG	Lcn:?, Gad:?, Sas:?
Group Voice Channel Grant Explicit	GVCG	LcnT:?, Gad:?, Sad:?, LcnR:?
Group Voice Channel Grant Update	GVCGU	Lcn:?, Gad:?, Lcn:?, Gad:?
Group Voice Channel Grant Update Explicit	GVCGUE	LcnT:?, LcnR:?, Gad:?
Unit To Unit Voice Channel Grant	UTUVCG	Lcn:?, Tad:?, Sad:?
Unit To Unit Voice Channel Grant Extended	UTUVCGE	LcnT:?, Tad:?, Sad:?, LcnR:?
Unit To Unit Answer Request	UTUAR	Tad:?, Src:?
Unit To Unit Answer Request Extended	UTUARE	Tad:?, Src:?
Unit To Unit Voice Channel Grant Update	UTUVCGU	Lcn:?, Tad:?, Sad:?
Unit To Unit Voice Channel Grant Update Extended	UTUVCGUE	LcnT:?, Tad:?, Sad:?, LcnR:?
Telephone Voice Channel Grant	TIIVCG	
Telephone Interconnect Answer Request	TIAR	
Individual Data Channel Grant	IDCG	
Group Data Channel Grant	GDCG	
Group Data Channel Announcement	GDCA	
Group Data Channel Announcement Explicit	GDCAE	
SNDP Data Channel Grant	SDCG	
SNDP Data Page Request	SDPR	
SNDP Data Channel Announcement Explicit	SDCAE	
Status Update	SU	
Status Query	SQ	

Message Update	MU	
Radio Unit Monitor Command	RUMC	
Call Alert	CA	
Acknowledge Response FNE	ARF	
Queued Response	QR	
Extended Function Command	EFC	
Deny Response	DR	
Group Affiliation Response	GAR	
Secondary Control Channel Broadcast Explicit	SCCBE	
Group Affiliation Query	GAQ	
Location Registration Response	LRR	
Unit Registration Response	URR	
Unit Registration Command	URC	
Authentication Command	AC	
De-Registration Acknowledge	DRA	
Identifier Update for VHF/UHF Bands	IU ForVU	Iden:?, Bw:?, Tofs:?, Csp:?, Bfrq:?
Time and Date Announcement	TDA	
Roaming Address Command	RAC	
Roaming Address Update	RAU	
System Service Broadcast	SSB	
Secondary Control Channel Broadcast	SCCB	
RFSS Status Broadcast	RSB	Sid:?, Sub:?, Site:?, Lcn:?
RFSS Status Broadcast Extended	RSBE	Sid:?, Sub:?, Site:?, LcnT:?, LcnR:?
Network Status Broadcast	NSB	Wacn:?, Sid:?, Lcn:?
Network Status Broadcast Extended	NSBE	Wacn:?, Sid:?, LcnT:?, LcnR:?
Adjacent Status Broadcast	ASB	
Identifier Update for non-VHF/UHF Bands	IU NonVU	Iden:?, Bw:?, Tofs:?, Csp:?, Bfrq:?
Protection Parameter Broadcast	PPB	
Protection Parameter Update	PPU	
Receive Error		

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)

[EDACS]

Message Type	Message	Description
Site ID	Site ID	Site:?, Lcn:?
Talkgroup Voice Channel Grant	TG Grant	Tid:?, Uid:?, Lcn:?, Sts:?
Talkgroup Voice Channel Grant Update	TG Update	Tid:?, Lcn:?, Sts:?
I-Call Voice Channel Grant Update	I-Call	Uid:?, Lcn:?, Sts:?
Patch Voice Channel Grant	Pat Grant	Pid:?, Uid:?, Lcn:?, Sts:?
Patch Voice Channel Grant Update	Pat Update	Pid:?, Lcn:?, Sts:?
Patch List	Pat List	Pid:
First OSW	First OSW	
Receive Error	Receive Error	

Site: Site ID(decimal)
 Tid: Talk Group ID(AFS)
 Uid: Unit ID(decimal)
 Pid: Patch ID(decimal)
 Mid: Patch Member ID (decimal)
 Lcn: LCN(decimal)
 Sts: Status bit

N (Normal Talkgroup)
 P (Talkgroup Patch)
 E (Emergency)
 EP (Emergency Patch)
 D (Digital Talkgroup)
 DP (Digital Patch)
 DE (Digital Emergency)
 DEP (Digital Emergency Patch)
 I (I-Call)
 DI (Digital I-Call)

Activity Log File Format

[Header]

Format:

Format Version	Version	System Name	Site Name
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Parameter:

Format Version
 Version 2.00
 System Name System Name
 Site Name Site Name

[General]

Format:

Time	Data	Message	Description1	Description2	Description3	Description4	Description5
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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 Field "<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					

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 Field "<opcode>,<data>"
 opcode opcode 1byte:00-FF(hex)
 data TSBK 12bytes:00000000000000000000-FFFFFFFFFFFFFFFF(hex)

Opecode	Message	Description1	Description2	Description3	Description4	Description5
00 GVCG	Group Voice Channel Grant	Lcn:	Gad:	Sad:		
00 GVCG (*1)	Group Voice Channel Grant Explicit	LcnT:	Gad:	Sad:	LcnR:	
02 GVCGU	Group Voice Channel Grant Update	Lcn:	Gad:	Lcn:	Gad:	
03 GVCGUE	Group Voice Channel Grant Update Explicit	LcnT:	LcnR:	Gad:		
04 UTUVCG	Unit To Unit Voice Channel Grant	Lcn:	Tad:	Sad:		
04 UTUVCGE (*1)	Unit To Unit Voice Channel Grant Extended	LcnT:	Tad:	Sad:	LcnR:	
05 UTUAR	Unit To Unit Answer Request	Tad:	Src:			
05 UTUARE (*1)	Unit To Unit Answer Request Extended	Tad:	Src:			
06 UTUVCGU	Unit To Unit Voice Channel Grant Update	Lcn:	Tad:	Sad:		
06 UTUVCGUE (*1)	Unit To Unit Voice Channel Grant Update Extended	LcnT:	Tad:	Sad:	LcnR:	
08 TIVCG	Telephone Voice Channel Grant					
0A TIAR	Telephone Interconnect Answer Request					
10 IDCG	Individual Data Channel Grant					
11 GDCCG	Group Data Channel Grant					

12 GDCA	Group Data Channel Announcement					
13 GDCAE	Group Data Channel Announcement Explicit					
14 SDG	SNDOP Data Channel Grant					
15 SDPR	SNDOP Data Page Request					
16 SDCAE	SNDOP Data Channel Announcement Explicit					
18 SU	Status Update					
1A SQ	Status Query					
1C MU	Message Update					
1D RUMC	Radio Unit Monitor Command					
1F CA	Call Alert					
20 ARF	Acknowledge Response FNE					
21 QR	Queued Response					
24 EFC	Extended Function Command					
27 DR	Deny Response					
28 GAR	Group Affiliation Response					
29 SCCBE	Secondary Control Channel Broadcast Explicit					
2A GAQ	Group Affiliation Query					
2B LRR	Location Registration Response					
2C URR	Unit Registration Response					
2D URC	Unit Registration Command					
2E AC	Authentication Command					
2F DRA	De-Registration Acknowledge					
34 IU ForVU	Identifier Update for VHF/UHF Bands	Iden:	Bw:	Tofs:	Csp:	Bfrq:
34 TDA	Time and Date Announcement					
36 RAC	Roaming Address Command					
37 RAU	Roaming Address Update					
38 SSB	System Service Broadcast					
39 SCCB	Secondary Control Channel Broadcast					
3A RSB	RFSS Status Broadcast	Sid:	Sub:	Site:	Len:	
3A RSBE (*1)	RFSS Status Broadcast Extended	Sid:	Sub:	Site:	LenT:	LenR:
3B NSB	Network Status Broadcast	Wacn:	Sid:	Len:		
3B NSBE (*1)	Network Status Broadcast Extended	Wacn:	Sid:	LenT:	LenR:	
3C ASB	Adjacent Status Broadcast					
3D IU NonVU	Identifier Update for non-VHF/UHF Bands	Iden:	Bw:	Tofs:	Csp:	Bfrq:
3E PPB	Protection Parameter Broadcast					
3F PPU	Protection Parameter Update					
	Receive Error					

(*1) Multiple Block Packet

Len: LCN(decimal)
 LenT: Transmit channel LCN(decimal)
 LenR: 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)

[EDACS]

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

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

Site: Site ID(decimal)
 Tid: Talk Group ID(AFS)
 Uid: Unit ID(decimal)
 Pid: Patch ID(decimal)
 Mid: Patch Member ID (decimal)
 Len: 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