audio-technica

Engineered Sound Wireless Systems

Syslog Specifications

Ver.2.0

1. Introduction

1.1 Purpose of This Document

This document describes the syslog specifications to control the Engineered Sound Wireless System (hereinafter referred to as the Device) developed in Audio-Technica.

1.2 List of Applicable Devices

ESW-R4180DAN

ESW-R4180LK

ESW-CHG4

ESW-CHG5

1.3 Definitions of Terms

Term	Description
RU	Generic term for ESW-R4180DAN and ESW-R4180LK
RUD	ESW-R4180DAN (not including ESW-R4180LK)
RUA	ESW-R4180LK (not including ESW-R4180DAN)
CHG	General term for ESW-CHG4 and ESW-CHG5
Tx	Generic term for ESW-T 4101, ESW-T 4102, ESW-T 4106, and ESW-T 4107
LINK	DECT communication between TX and RU
Ch	Channel
Slot	There are six TX data areas per CH, which can be registered for each CH of RU.

2. Basic Specifications

2.1 Log Format

- The log is output in the format arranged for the Device based on the syslog protocol specified in RFC 3164.
- The maximum size for a packet is 180 bytes.
- A packet is composed of two parts: HEADER and MESSAGE.
- The log is in text format and only ASCII characters are output.
- "CR" (↵: 0x0D) is added to the end of log data as a termination character.

[Example]

<6>Feb 06 21:34:23 ESW-R4180DAN [DECT 00] 000A45DCDF15 [INFO]:[26] Ch1 muted↵

Example	**<6>**	**Feb 06 21:34:23**	**ESW-R4180DAN**		**[DECT 00]**		**000A45DCDF15**	
Description / Size	Syslog PRI / 3byte	TIMESTAMP / 16byte	HOST NAME / 16byte	DELIMITER / 1byte	DECT MODE / 9byte	DELIMITER / 1byte	MAC Address / 12byte	DELIMITER / 1byte
	HEADER / 59byte							

[INFO]:	**[26]**		**Ch1 muted**	↵
Level / 7~9byte	Task ID / 3~4byte	DELIMITER / 1byte	Message Body / Variable by log	Termination character / 1 byte

MESSAGE / Up to 121 bytes)

* One byte of space (0x20) is provided as a delimiter.

2.2 Log Message Details

No	Level	Device	Message Body	Description
1	INFO	RU	Ch*XX* muted	RU channel has been muted. *XX*: RU channel
2	INFO	RU	Ch*XX* unmuted	RU channel has been unmuted. *XX*: RU channel
3	INFO	RU	Ch*XX* Tx*YY* ID*ZZ abc* muted	The Tx has been muted. *XX*: RU channel *YY*: DECT ID of the Tx *ZZ*: Device ID set for the Tx *abc*: Name set for the Tx
4	INFO	RU	Ch*XX* Tx*YY* ID*ZZ abc* unmuted	The Tx has been unmuted. *XX*: RU channel *YY*: DECT ID of the Tx *ZZ*: Device ID set for the Tx *abc*: Name set for the Tx
5	NOTICE	RU	Ch*XX* Tx*YY* ID*ZZ abc* AF overload	The AF meter of RU has reached its maximum value. *XX*: RU channel *YY*: DECT ID of the Tx *ZZ*: Device ID set for the Tx *abc*: Name set for the Tx
6	INFO	CHG	Port*XX* Tx*YY* ID*ZZ abc* charging start	Charging of the TX set on the CHG started normally. *XX*: Port number of the relevant charger *YY*: DECT ID of the Tx *ZZ*: Device ID set for the Tx *abc*: Name set for the Tx
7	INFO	CHG	Port*XX* Tx*YY* ID*ZZ abc* charging complete	Charging of the TX set on the CHG completed. *XX*: Port number of the relevant charger *YY*: DECT ID of the Tx *ZZ*: Device ID set for the Tx *abc*: Name set for the Tx
8	INFO	CHG	Port*XX* Tx*YY* ID*ZZ abc* battery warning [Low Temperature 10 deg C]	The temperature of the TX battery set on the CHG has dropped to 10°C or less. *XX*: Port number of the relevant charger *YY*: DECT ID of the Tx *ZZ*: Device ID set for the Tx *abc*: Name set for the Tx
9	INFO	CHG	Port*XX* Tx*YY* ID*ZZ abc* battery warning [Battery Deterioration]	The battery of the TX set on the CHG is degraded. *XX*: Port number of the relevant charger *YY*: DECT ID of the Tx

				ZZ: Device ID set for the Tx *abc*: Name set for the Tx
10	INFO	CHG	Port*XX* Tx communication warning	Unable to communicate with the TX set on the CHG. *XX*: Port number of the relevant charger
11	NOTICE	CHG	Port*XX* Tx*YY* ID*ZZ abc* charging error [High Voltage]	Charging error of the TX set on the CHG (battery overvoltage) *XX*: Port number of the relevant charger *YY*: DECT ID of the Tx *ZZ*: Device ID set for the Tx *abc*: Name set for the Tx
12	NOTICE	CHG	Port*XX* Tx*YY* ID*ZZ abc* charging error [Short]	Charging error of the TX set on the CHG (short circuit of charging terminals) *XX*: Port number of the relevant charger *YY*: DECT ID of the Tx *ZZ*: Device ID set for the Tx *abc*: Name set for the Tx
13	NOTICE	CHG	Port*XX* Tx*YY* ID*ZZ abc* charging error [High Temperature 45 deg C]	Charging error of the TX set on the CHG (high battery temperature, 45°C) *XX*: Port number of the relevant charger *YY*: DECT ID of the Tx *ZZ*: Device ID set for the Tx *abc*: Name set for the Tx
14	NOTICE	CHG	Port*XX* Tx*YY* ID*ZZ abc* charging error [Low Temperature 0 deg C]	Charging error of the TX set on the CHG (low battery temperature, 0°C) *XX*: Port number of the relevant charger *YY*: DECT ID of the Tx *ZZ*: Device ID set for the Tx *abc*: Name set for the Tx
15	NOTICE	CHG	Port*XX* Charging error [TX communication]	Charging error of the TX set on the CHG (transmitter communication) *XX*: Port number of the relevant charger
16	INFO	RU	Ch*XX* Tx*YY* ID*ZZ abc* USB charging start	Tx charging via USB connection started. *XX*: RU channel *YY*: DECT ID of the Tx *ZZ*: Device ID set for the Tx *abc*: Name set for the Tx
17	INFO	RU	Ch*XX* Tx*YY* ID*ZZ abc* USB charging complete	Tx charging via USB connection completed. *XX*: RU channel *YY*: DECT ID of the Tx *ZZ*: Device ID set for the Tx *abc*: Name set for the Tx
18	INFO	RU	Ch*XX* Tx*YY* ID*ZZ abc* USB disconnected	USB cable was disconnected after USB charging started. *XX*: RU channel *YY*: DECT ID of the Tx *ZZ*: Device ID set for the Tx

				abc: Name set for the Tx
19	INFO	RU	Ch*XX* Tx*YY* ID*ZZ abc* low battery alert	Battery capacity of the Tx linked with the RU is low. *XX*: RU channel *YY*: DECT ID of the Tx *ZZ*: Device ID set for the Tx *abc*: Name set for the Tx
20	INFO	RU	Ch*XX* Tx*YY* ID*ZZ abc* the battery will run out	The remaining operating time of the Tx linked with the RU is less than 30 minutes. *XX*: RU channel *YY*: DECT ID of the Tx *ZZ*: Device ID set for the Tx *abc*: Name set for the Tx
21	INFO	CHG	Port*XX* placed on charger	TX was set on the CHG. *XX*: Port number of the relevant charger
22	INFO	CHG	Port*XX* Tx*YY* ID*ZZ abc* removed from charger * When communication between the TX and CHG is not completed :Port*XX* TX removed from charger	TX was removed from the CHG. *XX*: Port number of the relevant charger *YY*: DECT ID of the Tx *ZZ*: Device ID set for the Tx *abc*: Name set for the Tx
23	INFO	CHG	Port*XX* Charger link requested	The CHG LINK button function was requested. *XX*: Port number of the relevant charger
24	INFO	CHG	Charger link fail	The CHG LINK button function failed.
25	INFO	RU	Ch*XX* Tx*YY* registered to *abc* Table slot*ZZ* * During registration on the CHG LINK SLOT :Ch*XX* Tx*YY* registered to CHG Link Slot	Tx was registered to the RU. *XX*: RU channel *YY*: DECT ID of the Tx *abc*: Registered data table *ZZ*: Registered slot
26	INFO	CHG	Tx*XX YY abc* registered * During registration on the CHG LINK SLOT : Tx*XX* ID*YY abc* registered to CHG Link Slot	RU was registered to the Tx set on the CHG. *XX*: DECT ID of the Tx *YY*: Device ID set for the Tx *abc*: Name set for the Tx
27	INFO	RU	Ch*XX* Tx*YY* deregistered from *abc* Table slot*ZZ* * During deregistration on the CHG LINK SLOT :Ch*XX* Tx*YY* deregistered to CHG Link Slot	Tx was deregistered from the RU. *XX*: RU channel *YY*: DECT ID of the Tx *abc*: Registered data table *ZZ*: Registered slot
28	INFO	CHG	Tx*XX YY abc* deregistered	RU was deregistered from the Tx set on the CHG. *XX*: DECT ID of the Tx *YY*: Device ID set for the Tx

				abc: Name set for the Tx
29	INFO	RU	Ch*XX* Tx*YY* ID*ZZ abc* linked	RU and Tx were linked. *XX*: RU channel *YY*: DECT ID of the Tx *ZZ*: Device ID set for the Tx *abc*: Name set for the Tx
30	INFO	RU	Ch*XX* Tx*YY* ID*ZZ abc* link disconnect code --	Link between the RU and Tx was disconnected. *XX*: RU channel *YY*: DECT ID of the Tx *ZZ*: Device ID set for the Tx *abc*: Name set for the Tx --: Reason code for Link disconnection
31	INFO	RUD	Roaming On	RUD roaming mode was turned on.
32	INFO	RUD	Roaming Off	RUD roaming mode was turned off.
33	INFO	RU	RF mode changed	RF mode was changed.
34	INFO	RU	Preset #*n abc* recalled * "Preset #0 Primary Table recalled" for master table calls	Preset was called. *n*: Preset number *abc*: Preset name
35	INFO	RU, CHG	Power On	Boot completed successfully.
36	INFO	RU	DECT RF Scan start	RF scan started.
37	INFO	RU	DECT RF Scan stop	RF scan finished.
38	INFO	RU, CHG	Reboot	Rebooted.
39	INFO	RUD, CHG	Network reset (IP)	Rebooted after changing network settings.
40	INFO	RUD, CHG	Network reset (Local)	Network reset by button operation completed.
41	INFO	RU, CHG	Factory reset (IP)	Factory reset by IP command completed.
42	INFO	RU, CHG	Factory reset (Local)	Factory reset by button operation completed.
43	INFO	RU, CHG	FW update reset	Reboot completed after FW update completion.
44	INFO	RUD	Dante network reset	Completion of RU reboot due to Dante reboot.
45	NOTICE	RUD	Sync leader lost reset	Rebooted because the sync leader between receivers is lost.
46	NOTICE	RUD	Out of receiver sync	Synchronization between receivers is out.
47	NOTICE	RUD	Become receiver sync follower	Became a sync follower between receivers.
48	NOTICE	RUD, CHG	IP address conflict	Duplicate IP address.
49	NOTICE	RUD, CHG	IP address conflict restore	Duplicate IP address resolved.
50	NOTICE	CHG	Too many chargers linked each other	More than the maximum number of CHGs connected.

51	NOTICE	CHG	Port*XX* Charger communication error	Charger communication error occurred. *XX*: Port number of the relevant charger
52	FATAL	RU	Hardware error(*XXX*)	Hardware error occurred. *XXX*: Error details
53	NOTICE	RUA	Unexpected RJ45 linkup	Unexpected RJ45 port linkup occurred.
54	NOTICE	RUA	FCS error	FCS error occurred. This can occur when the power of the Audio-Technica LINK compatible mixer to which RUA is connected is turned on or off.
55	INFO	RUA	FCS error restore	Recovered from the FCS error condition. This can occur when the power of the Audio-Technica LINK compatible mixer to which RUA is connected is turned on or off.

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