



Specification

Z-Wave Alliance Frequency and Region List

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REVISION RECORD

Doc. Rev	Date	By	Pages affected	Brief description of changes
0.1	2021/04/08	CSWG	All	Initial version
0.5	2021/08/23	CSWG	Front page, header, footer	Cleanup for publication

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1 ABBREVIATIONS

Abbreviation	Explanation
RF	Radio Frequency

2 INTRODUCTION

2.1 Purpose

This document lists the approved regions and frequencies within the Z-Wave ecosystem.

This document is the basis for the selections available in the Certification Form

2.2 Audience and prerequisites

Z-Wave protocol and application developers

3 Z-WAVE COUNTRY, REGIONS AND FREQUENCIES

Table 1 Z-Wave frequency Plans

Frequency Plan	Channel Config *	Center Frequency (MHz)			Data Rate *		
		F ₁	F ₂	F ₃	F ₁	F ₂	F ₃
ANZ	2	919.80	921.40	--	R3	R2+R1	--
CN	2	868.40	--	--	R1+R2+R3	--	--
EU	2	869.85	868.40	--	R3	R2+R1	--
HK	2	919.80	919.80	--	R3	R2+R1	--
IL	2	916.00	--	--	R1+R2+R3	--	--
IN	2	865.20	--	--	R1+R2+R3	--	--
JP	3	922.50	923.90	926.30	R3	R3	R3
KR	3	920.90	921.70	923.10	R3	R3	R3
RU	2	869.00	--	--	R1+R2+R3	--	--
US	2	916.00	908.40	--	R3	R2+R1	--

* Refer to ITU-T 9.99.59

Table 2 Country/Region frequency list

Country/Region	Standard	Frequency plan
Algeria	EN 300 220	HK
Argentina	FCC CFR47 Part 15.249	US
Armenia	EN 300 220	EU
Australia	AS/NZS 4268	ANZ
Bahamas	FCC CFR47 Part 15.249	US
Bahrain	EN 300 220	EU
Barbados	FCC CFR47 Part 15.249	US
Bermuda	FCC CFR47 Part 15.249	US
Bolivia	FCC CFR47 Part 15.249	US
Brazil	ANATEL Resolution 506	ANZ
British Virgin Islands	FCC CFR47 Part 15.249	US
Canada	FCC CFR47 Part 15.249	US
Cayman Islands	FCC CFR47 Part 15.249	US
CEPT*	EN 300 220	EU
Cyprus		
Moldova		
Chile	AS/NZS 4268	ANZ
China	CNAS / EN 300 220 / CMIIT 2016DJ7232	CN
Colombia	FCC CFR47 Part 15.249	US

Costa Rica	ARIB T96, ARIB STD-T108	JP
Dominican Republic	AS/NZS 4268	ANZ
Ecuador	ARCOTEL Resolution 12-09-ARCOTEL-2107, Note EQA.45	ANZ
Egypt	EN 300 220	EU
El Salvador	AS/NZS 4268	ANZ
French Guiana	EN 300 220	EU
Georgia	EN 300 220	EU
Guatemala	FCC CFR47 Part 15.249	US
Haiti	FCC CFR47 Part 15.249	US
Honduras	FCC CFR47 Part 15.249	US
Hong Kong	HKTA 1035	HK
India	CSR 564 (E)	IN
Indonesia	Regulation No. 161 Tahun 2019	ANZ
Iraq	EN 300 220	EU
Israel		IL
Jamaica	FCC CFR47 Part 15.249	US
Japan	ARIB STD-T108	JP
Jordan	EN 300 220	EU
Kazakstan	EN 300 220	EU
Kuwait	EN 300 220	EU
Lebanon	EN 300 220	EU
Libya	EN 300 220	EU
Macau	Clause 2, Article 58-2 of Radio Waves Act	KR
Malaysia	MCMC MTSFBTC T007: 2014	ANZ
Maldives	EN 300 220	EU
Mauritius	EN 300 220	EU
Mexico	FCC CFR47 Part 15.249	US
Morocco	CNAS / EN 300 220 / CMIIT 2016DJ7232	CN
New Zealand	AS/NZS 4268	ANZ
Nicaragua	FCC CFR47 Part 15.249	US
Nigeria	EN 300 220	EU
Oman	EN 300 220	EU
Panama	FCC CFR47 Part 15.249	US
Paraguay	AS/NZS 4268	ANZ
Peru	AS/NZS 4268	ANZ
Philippines	EN 300 220	EU
Qatar	EN 300 220	EU
Russia	GKRCh/EN 300 220	RU
Saudi Arabia	EN 300 220	EU
Singapore	IMDA TS SRD	KR
South Africa	ICASA/EN 300 220	EU

South Korea	Clause 2, Article 58-2 of Radio Waves Act	KR
St Kitts & Nevis	FCC CFR47 Part 15.249	US
Suriname	FCC CFR47 Part 15.249	US
Taiwan	Changed from JP May 2017	KR
Thailand	Clause 2, Article 58-2 of Radio Waves Act	KR
Trinidad & Tabago	FCC CFR47 Part 15.249	US
Turkmenistan	EN 300 220	EU
Turks & Caicos Islands	FCC CFR47 Part 15.249	US
UAE	EN 300 220	EU
Uruguay	AS/NZS 4268	ANZ
USA	FCC CFR47 Part 15.249	US
Uzbekistan	Uz.SMT.01.334.1961745	EU
Venezuela		ANZ
Vietnam	AS/NZS 4268	ANZ
Yemen	EN 300 220	EU

4 Z-WAVE LONG RANGE COUNTRIES, REGIONS AND FREQUENCIES

Table 3 Z-Wave frequency Plans

Frequency Plan	Channel Config *	Center Frequency (MHz)		Data Rate *	
		FLR ₁	FLR ₂	FLR1	FLR2
USLR	1, 2	912.00	920.00	LR1	LR1
* Refer to ZWA_Z-Wave Long Range PHY and MAC Layer Specification_SPE					

Table 4 Country/Region frequency list

Country/Region	Standard	Frequency plan
USA	FCC CFR47 Part 15.247	USLR

5 HOW TO ADD A REGION OR COUNTRY TO THE LIST

Existing frequency plans must be used whenever possible, but any member of the Z-Wave Alliance may request support for a new country or region within the Z-Wave eco-system.

Member must provide references to the country/region's RF regulatory and email it to the Core Stack Working Group CSWG-chair@sdmembers.z-wavealliance.org for approval.

Once approved the CSWG will update and share this list with the Product Certification & Ecosystem Working Group for certification update.

REFERENCES

- [1] ITU-T, G9959 (01/2015)
- [3] Z-Wave Alliance, ZWA_Z-Wave Long Range PHY and MAC Layer Specification_SPE