

Line Item	Type of testing	Device type	New/Full Certifications	Re-certifications	Re-certifications for Frequency
			Testing fee	Hardware/Software Testing fee	Change ¹
1	Level 1 - Standard testing	Slave devices and Dedicated Controllers	\$3,000,00	\$1,500,00	\$500,00
2	Level 2 - Enhanced Testing	Universal Controllers - Classic Z-Wave or Z-Wave Plus controllers based on SSC ² , PC or RPC Role Types	\$4,000,00	\$2,000,00	
3	Level 3 - Enhanced testing	Controllers and Software based on the CSC Role Type or Sub System Controller Device Type	\$5,500,00	\$3,000,00	
4	Level 4 - S2 Security testing for controllers	All controllers implementing S2 that are not based on Z/IP Gateway SDK v2.11 or newer ⁷ . This testing is in addition to the required Level 1, 2 or 3 testing	\$4,000,00	\$4,000,00	N/A
5	Basic Serial API & RF Testing	Hardware Device	\$1,000,00	\$1,000,00	\$500,00
6	QFN certification	Custom chip integration	\$3,000,00	\$3,000,00	\$3,000,00
7	Ad Hoc: Ad Hoc includes re-testing of one re-submitted device or software application. If additional device/software submissions are needed, an additional fee of \$500 per submission is required.				

Fees: All fees are in US Dollars. The test house may accept other currencies based on the exchange rate in effect at the time of submission. Wire transfer, taxes and currency exchange fees must be paid by the developer.

Certification Maintenance

Line Item	Type of Device	Type of Change / Changes to	Category	Affects Network Performance and/or Z-Wave Functionality (Application Level)	Requirements	Fees - Refer to Type of Device and level of testing required as shown above
101	All	Brand, name, part number, etc.	Non-technical Product Modification	No	Review Only	None
102	All	Change in SDK Branch (e.g. v6.51 to v6.61)	Product Modification	Yes	Full Certification	New/Full Certification
103	All	Update SDK within branch (e.g. v6.51.01 to v6.51.06)	Technical change	No	Review Only	None
104	All	Update SDK within branch + other changes	Based on other changes	Yes	Based on other changes	Based on other changes
105	All except Software	Region/Frequency ⁶	Limited Product Modification	Yes	Re-certification	Re-certification for Frequency Change Only
106	All except Software	Region/Frequency + other changes	Product Modification	Yes	Full Certification	New/Full Certification
107	Slave, Controller or Software	Up to 4 Standard Command Classes	Limited Product Modification	Yes	Re-certification	Hardware/Software Re-certification
108	Slave, Controller or Software	5 or more Standard Command Classes	Product Modification	Yes	Full Certification	New/Full Certification
109	Slave, Controller or Software	1 Advanced Command Class ⁵	Limited Product Modification	Yes	Re-certification	Hardware/Software Re-certification
110	Slave, Controller or Software	2 or more Advanced Command Classes ⁵	Product Modification	Yes	Full Certification	New/Full Certification
111	Slave, Controller or Software	1 Standard + 1 Advanced Command Class ⁵	Product Modification	Yes	Full Certification	New/Full Certification
112	Slave, Controller or Software	Changing Device Type of a Multi-Channel end point	Product Modification	Yes	Full Certification	New/Full Certification
113	Controller or Software	Changes to Software/GUI (cosmetic or not involving Z-Wave functionality)	Non-technical Product Modification	No	Review Only	None
114	Controller or Software	Any other change (not listed above) to software/GUI involving Z-Wave Functionality	Product Modification	Yes	Full Certification	New/Full Certification
115	Controller or Software	Derivative Software for additional controllers (example: different hardware) ³	Product Modification	Yes	Re-certification	Hardware/Software Re-certification
116	Software	Derivative Software for mobile devices ⁴	Product Modification	Yes	Re-certification	Hardware/Software Re-certification
117	Hardware	Change to firmware	Product Modification	Yes	Re-certification	Hardware Re-certification
118	All except Software	Change to Z-Wave module/ASIC used in device	Product Modification	Yes	Full Certification	New/Full Certification
119	QFN	Change to QFN implementation	Product Modification	Yes	Full QFN Certification	QFN Fees

¹ May be combined with Non-Technical Product Modifications that do not affect network behavior. NO other changes allowed!

² All Device Types based on SSC Role Type except for Sub System Controller

³ Same code, different hardware. Interface/GUI may have cosmetic differences but must provide identical Z-Wave functionality.

⁴ Software for IOS, Android, etc. Must access & control Z-Wave network through primary certified application. May provide a subset of primary application's functionality.

⁵ Advanced Command Classes include Security CC, Multi-Channel CC, Multi-Channel Association CC, Firmware Meta Data CC and Multi-Command CC

⁶ Includes change in regional libraries. Example: EU and China are same frequency but require different libraries.

⁷ S2 implementations based only on libs2 require significantly more testing than those based on Z/IP GW SDK v2.11. This testing MUST be done by Sigma Designs' R&D in Copenhagen. The Level 1, 2 or 3 fees are still paid to the independent test house for their services however; the fees for this additional testing are to be paid to Sigma Designs. We highly recommend that additional test samples are provided to Sigma Designs for this testing. If additional samples are not provided, the test partner will conduct their testing and then forward the test samples to Copenhagen for the S2 testing. This will significantly delay the completion of the certification process.

Revision Record

1	19-01-2013	Initial Release effective April 2, 2013
2	31-07-2013	Added fee for multiple device submissions during Ad Hoc (Line item #5) and USD to Euro equivalents
3	01-11-2015	1. Modified levels of testing & updated fees based on actual time & effort required for verification testing 2. Added Line Item 112 3. Deleted Advanced Command Class listing 4. Deleted Euro to USD equivalents
4	18-12-2015	1. Added note regarding Advanced Command Classes back in (accidentally deleted in prior version). 2. Updated SDK references in line items 103 & 104. 3. Updated last column of maintenance section; Changed "Document + Hardware/Software" to "New/Full Certification"
6	01-09-2017	1. Added Level 4 Enhanced testing for controllers; 2. Fixed line item numbering in maintenance section; 3. Added Line 118