

FIPS 140-2 Certificate Statistics for 2018



January 21, 2019



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Introduction

In this report, we take a look at the FIPS 140-2 certificates issued by the CMVP in 2018. For historical information, summary graphs for the years 2014-2018 are included.

About KeyPair Consulting Inc

Mark Minnoch and Steve Weymann are Co-Founders of KeyPair Consulting Inc. and creators of this report.

With over two decades of combined experience and hundreds of successful FIPS validations, KeyPair Consulting expertly guides technology companies in achieving their FIPS goals.



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FIPS Certificates for 2018

For 2018, the following trends are interesting:

- **Level 1 Modules.** The percentage of **Level 1 modules receiving FIPS 140-2 certificates is 62%**, higher than the 5 year average of 50%.
- **Software-only Modules.** The percentage of **software modules receiving FIPS 140-2 certificates is 43%**, higher than the 5 year average of 35%.
- **Total number of FIPS Certificates issued in 2018 is 258.** This is a 7% drop from the number of certificates issued in 2017 but slightly above the 5 year average of 255.

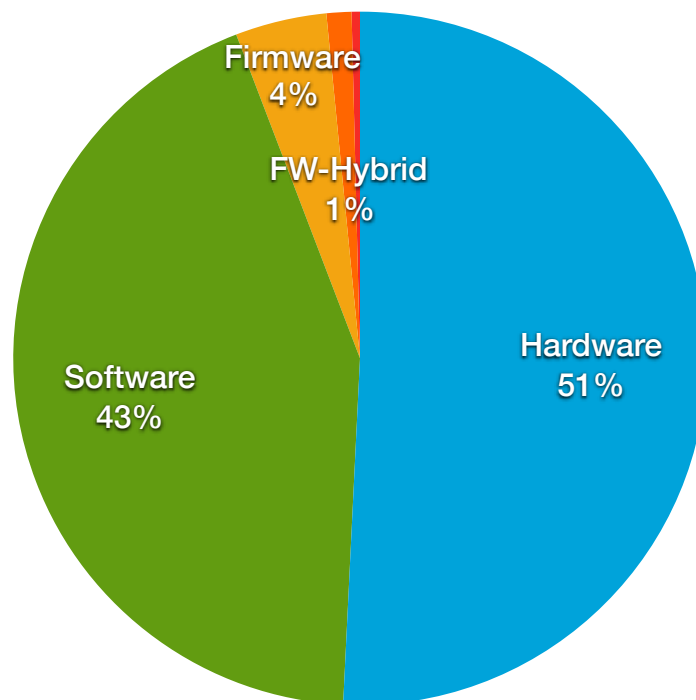
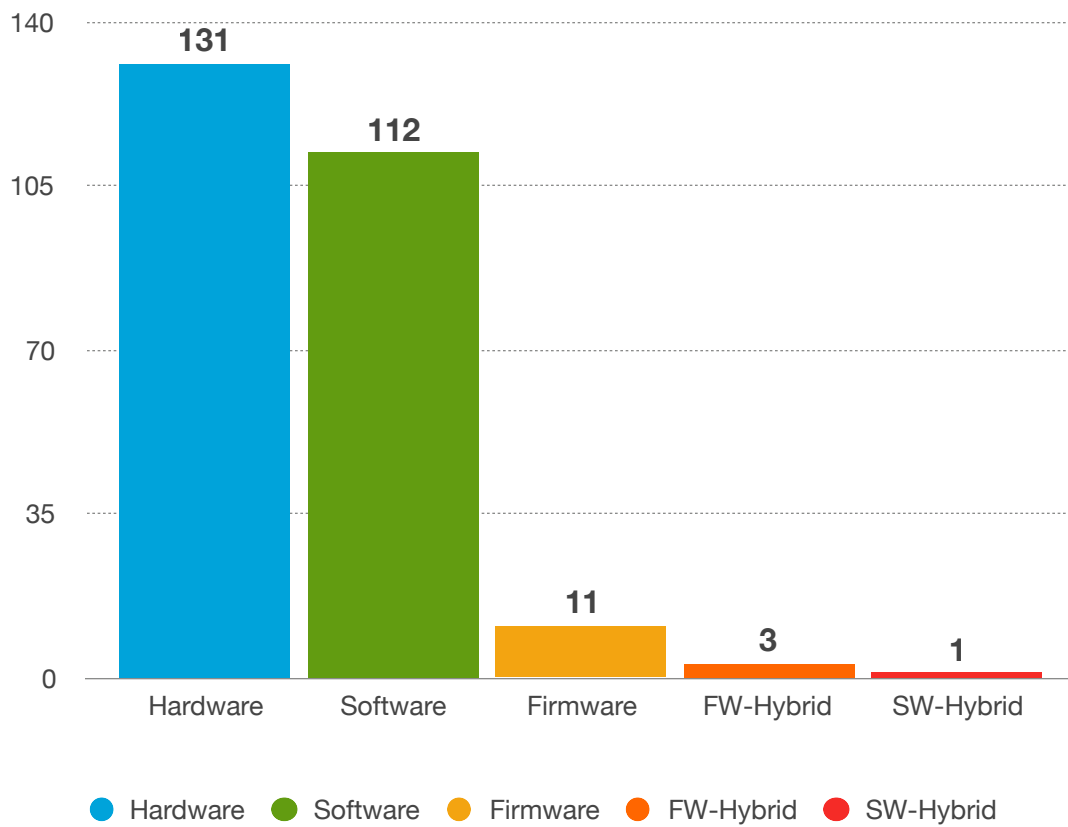
At least two events caused the CMVP to issue fewer FIPS 140-2 certificates in 2018:

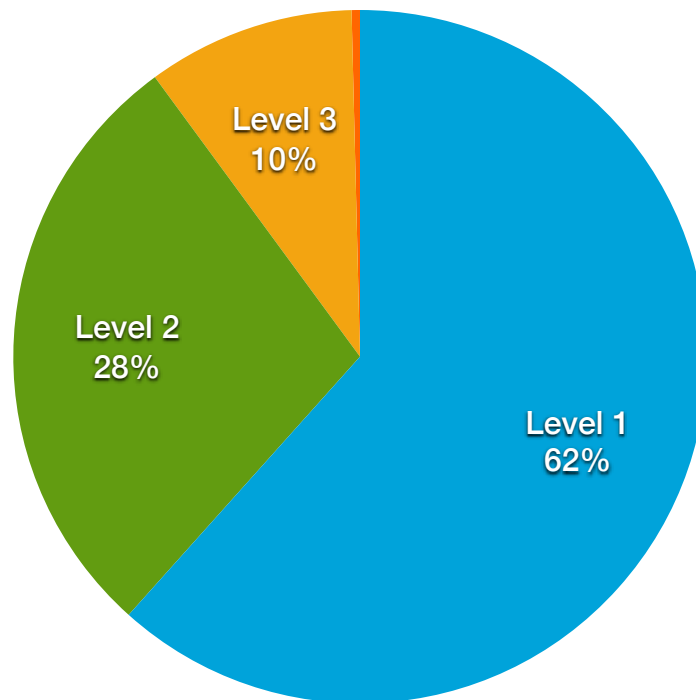
- (1) delayed contract renewal for some of the reviewers, and
- (2) the US government shutdown at the end of 2018.

Creating this report is time intensive and requires manual effort. Much care and love went into ensuring the accuracy of the information. KeyPair Consulting will correct any errors you find.

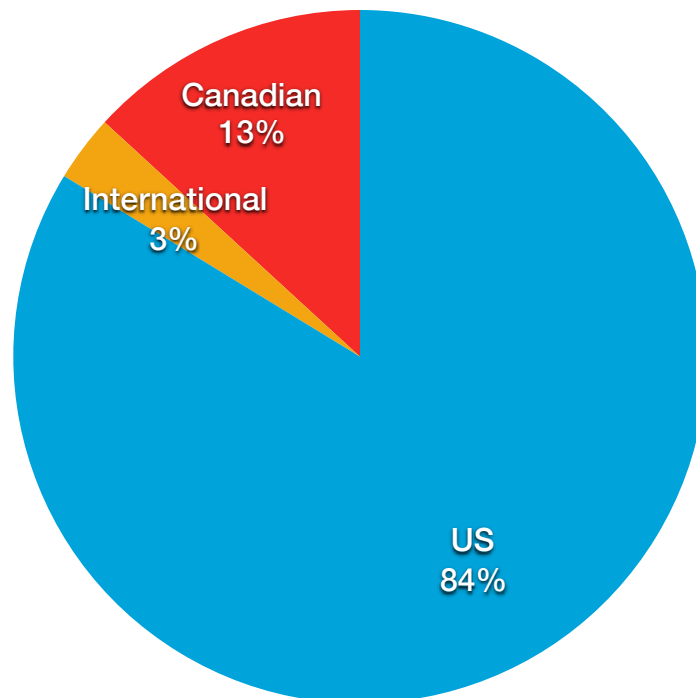
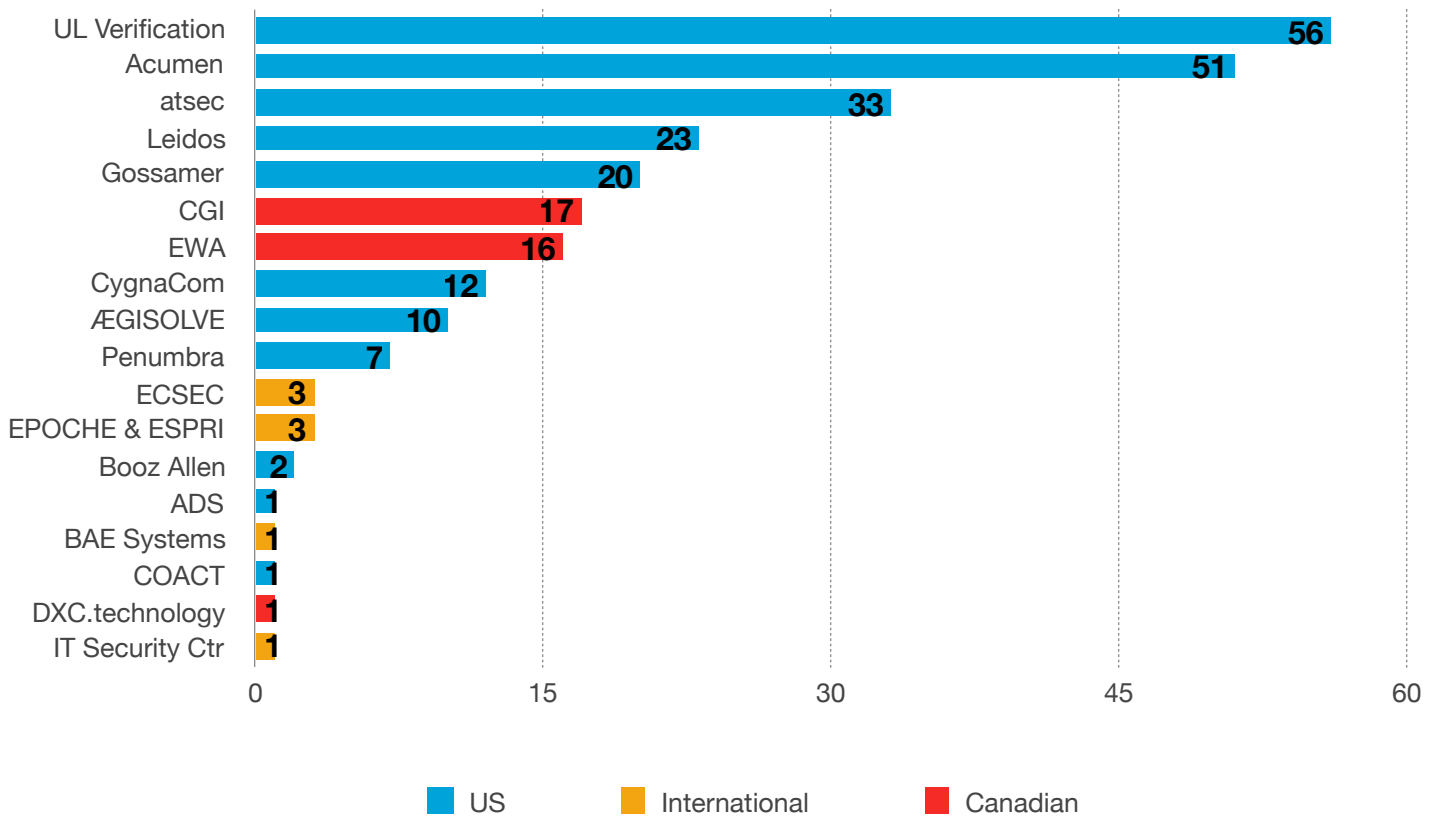
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Certificates by Module Type
2018

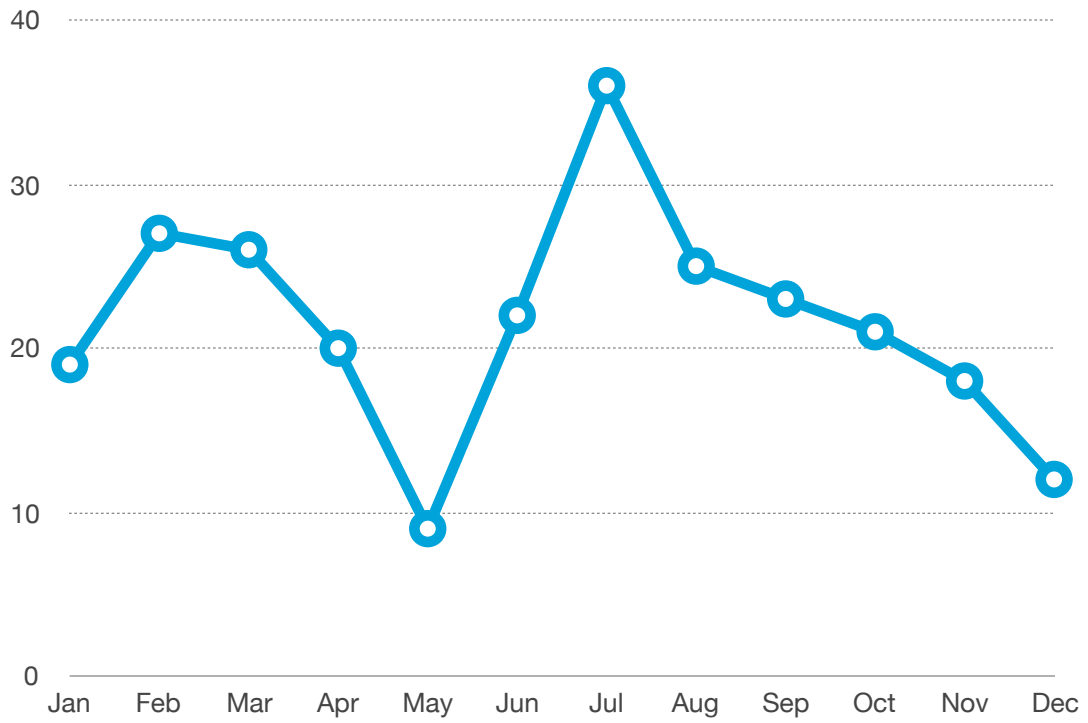




Certificates by Lab 2018



Certificates Issued by Month 2018



Certificates by Vendor (Top 10) 2018



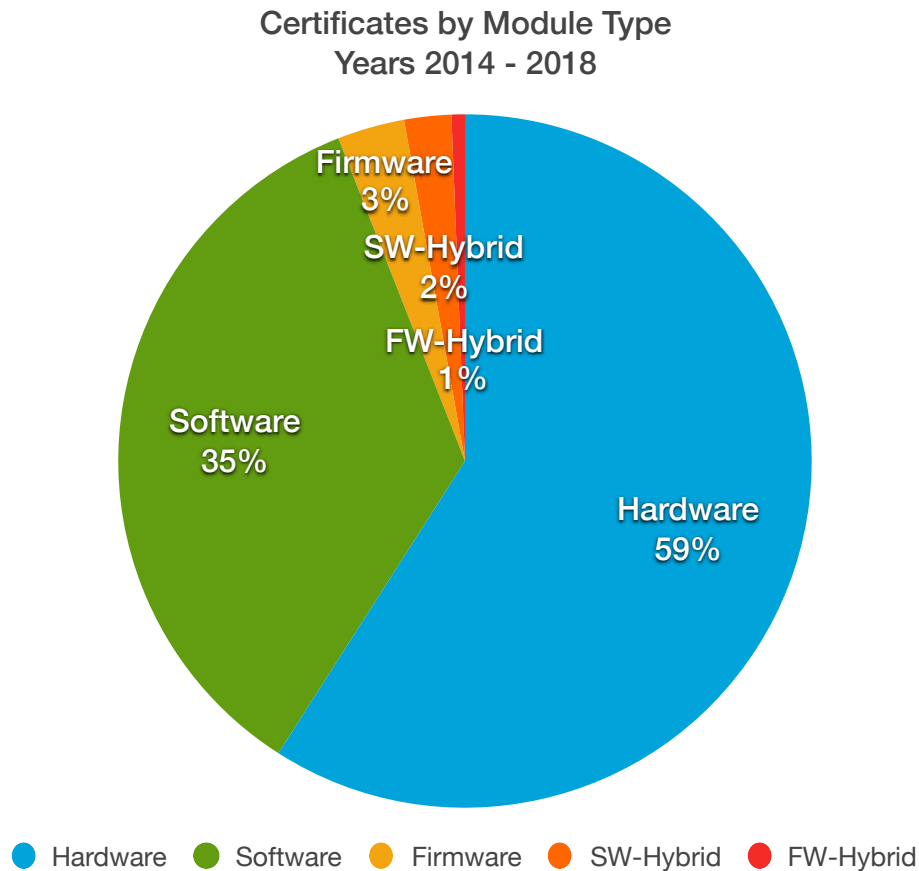
Other stats for 2018

- A total of 50 rebranded FIPS 140-2 certificates (19%) were issued in 2018 (IG G.8 Alternative Scenario 1A).
- 100% of software modules were validated at Level 1.
- Four ITAR (International Traffic in Arms Regulations) modules were validated in 2018 — two by Leidos and two by UL Verification Services.
- Just over 100 unique vendors received FIPS 140-2 certificates.
- The top 10 vendors accounted for 38% of the FIPS 140-2 certificates issued in 2018.

End of 2018 Certificate Information

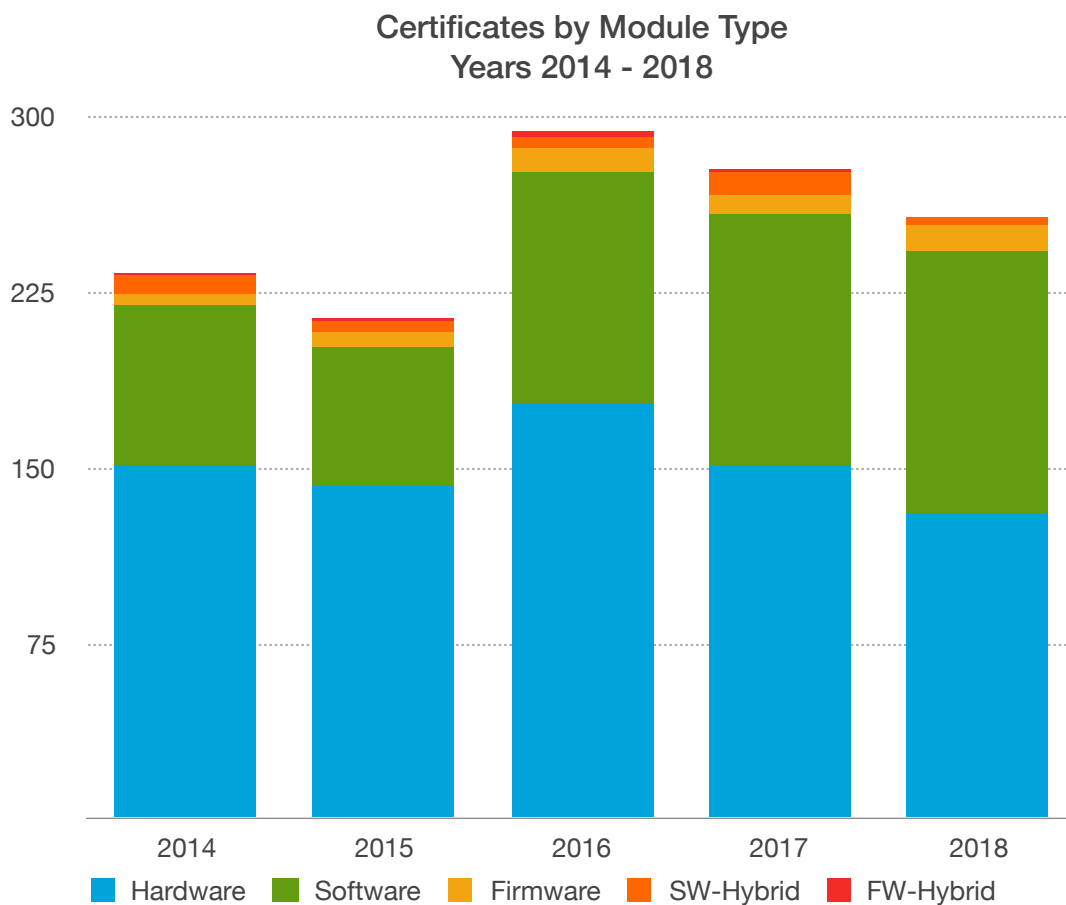
Statistics for 2014-2018

This section contains FIPS 140-2 Program trending information for the five years between 2014 and 2018.



For the five year period including 2014 and 2018, **59%** of all FIPS 140-2 validated cryptographic modules were **hardware**. Software modules accounted for 35% of the cryptographic modules validated.

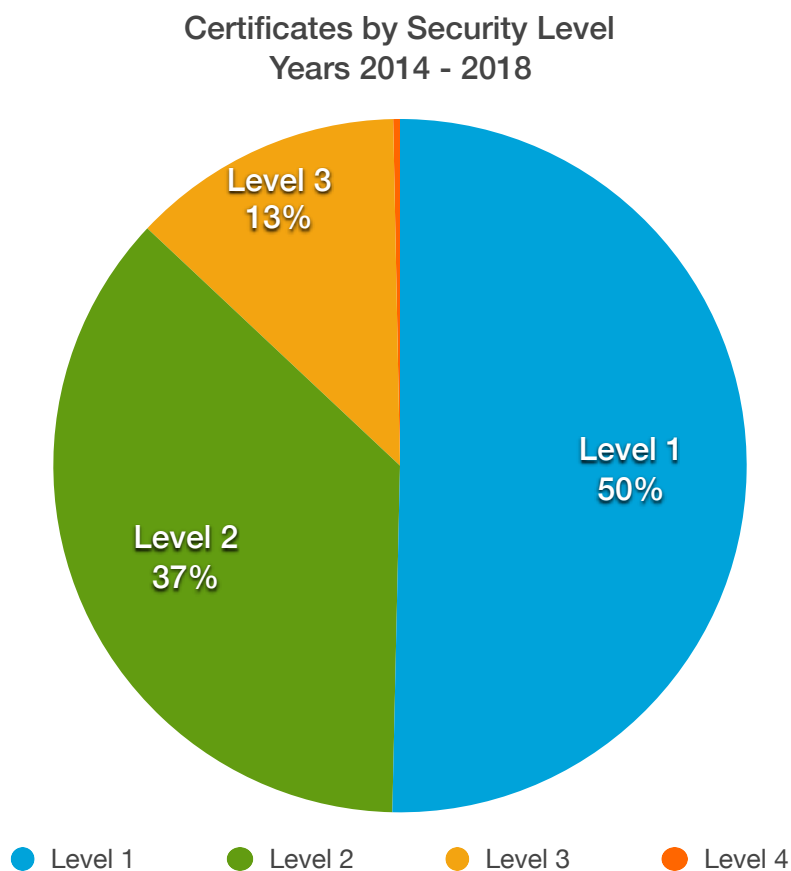
In the *Certificates by Module Type (2018)* chart (earlier in this report), the percentage of **software modules shows an increasing trend to 43%**.



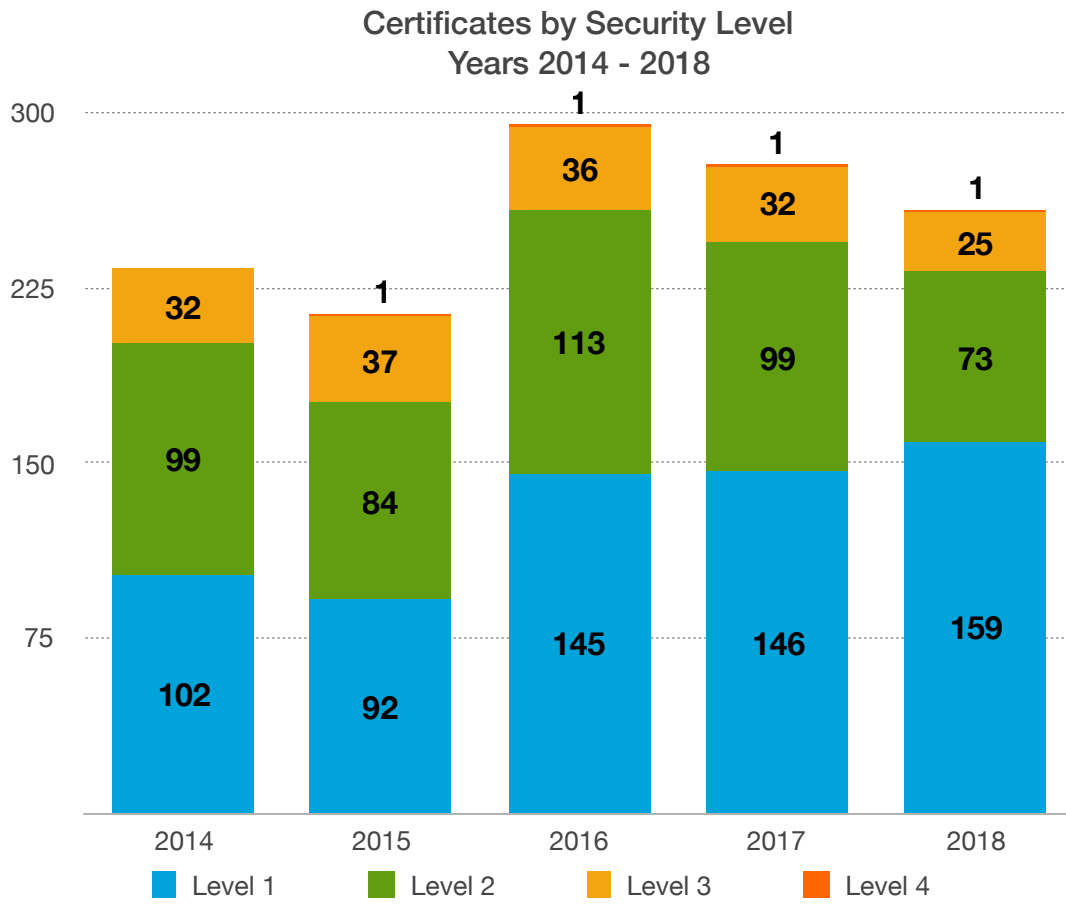
For the five year period including 2014 and 2018, an **average of 255** cryptographic modules were validated by the CMVP **each year**.

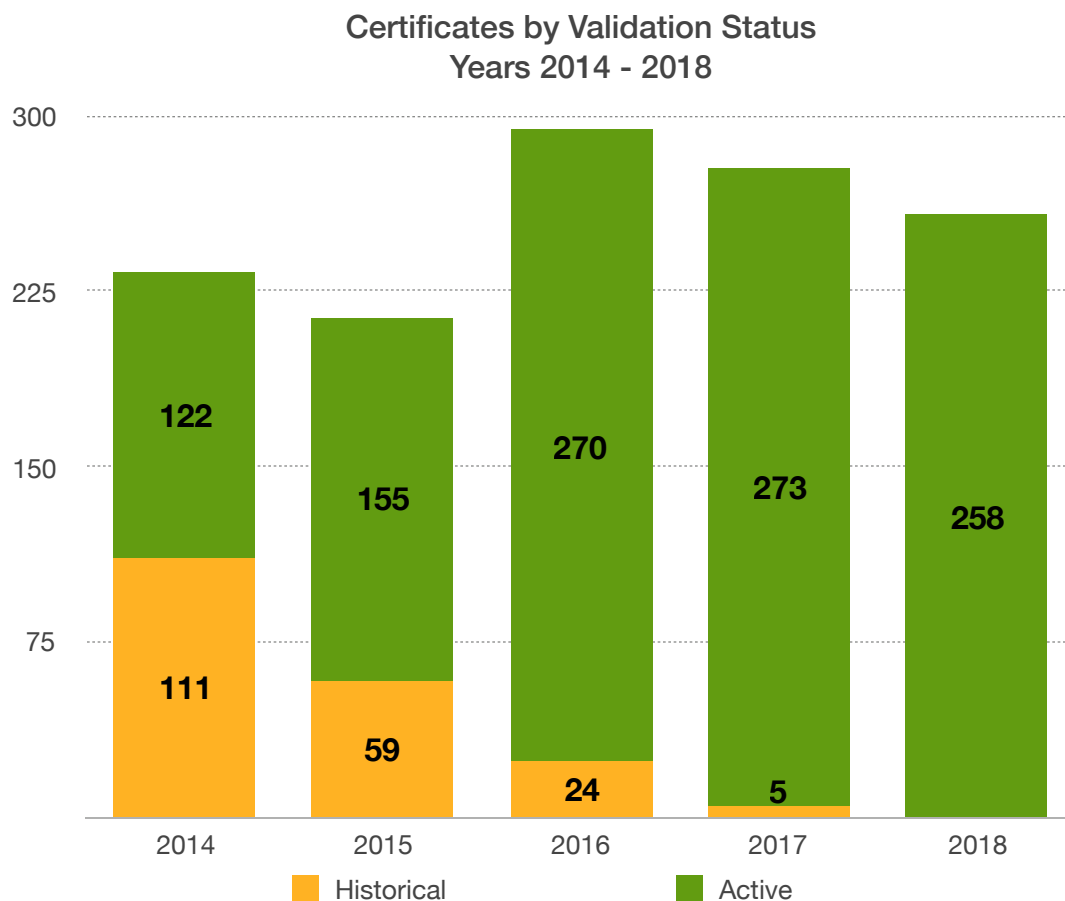
The CMVP issued 258 FIPS 140-2 certificates in 2018 — the third most of any year in the program history.

In 2016, the CMVP set the record number of certificates issued with 294.



For the five year period including 2014 and 2018, **50%** of all FIPS 140-2 validated cryptographic modules were **Security Level 1**.





The *Certificates by Validation Status* chart above shows the break down of modules that are currently “Active” and those that have been moved to the Historical list. No modules have been revoked during the years 2014 to 2018.

As a reminder, the CMVP makes the following statement about modules with a Historical Validation Status:

Historical - The referenced cryptographic module should not be included by Federal Agencies in new procurements. Agencies may make a risk determination on whether to continue using this module based on their own assessment of where and how it is used.

Thank you for reading our report. Our contact information is on page 2.
