



**jtsec**  
BEYOND IT SECURITY

# 2019 Common Criteria Statistics Report





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# WHO

## WHO WE ARE



**jtsec** is a company that offers consulting, auditing and security evaluation services following the most recognized market standards at a price that allows businesses of all sizes to access this service. **Contact us if you want to speed up your certification process!**

**jtsec** is made up of a team of recognized professionals in the IT security sector with more than 40 years of experience in this field. Most of our professionals have worked as evaluators and auditors in the most recognized certifications and standards of the sector (LINCE, PCI-PTS, Common Criteria, FIPS 140-2, etc.) and are able to join forces to provide a service of the highest quality.

# VALUES

## WHY WE EXIST

### TECHNICAL EXCELLENCE

We have come to raise the baton of technical excellence. With the highest qualification we can certify the security of your products and systems. We are 100% committed to a lifelong learning process.



### COMMITMENT TO OUR CUSTOMERS

We are determined to solve your problems, not to create new problems. Your project will be successful - there is no other option. We take the standard of excellence in dealing with clients to a new level.



### TIME TO MARKET

By doing our job on time, we can give a competitive advantage to our customers. If time is a constraint you can count on us. We put all our resources at your disposal to be not only the best but also the first.



# Introduction

## *Why this report?*

Historically, the Common Criteria Portal web ( <https://www.commoncriteriaportal.org> ) has contained the list of evaluated products. Each Certification Body is responsible for sending each new certified product to the web, along with its Certification Report and Security Target.

All this information is provided on the web, which even provides a Statistics section. This section, however, provides no graphical representation of the numbers and there is room for improvement regarding, for example, the evaluation laboratory, evaluation trends regarding the type of products certified (a categorization is provided, but it does not reflect state-of-art in security products) and other things, so we thought that an "all-in-one" report would be great for the Common Criteria community!

During the past 17<sup>th</sup> Common Criteria Conference that took place in Amsterdam in 2018, our team presented a tool that could bring a breath of fresh air to this scenario. The tool was improved during 2019 and we managed to make it better, presenting the improvements in the 18<sup>th</sup> Common Criteria Conference in Singapore, during October 2019.

## *How it is created?*

CC Scraper is a python script that analyses automatically the information from the CC portal using OCR capabilities, pdf reading and other features providing a comprehensive statistics report of the CC certifications.

The current version still depends on Common Criteria portal contents, and therefore a mismatch between each CB certified products and the statistics shown in this report may appear if the Certification Bodies do not timely send new updates to the web or the webmaster does not update the product list.

CC Scraper outputs a CSV file from where this report is semi-automatically created.

## *Contribute!*

Feel free to share the results shown in this report, and do not hesitate to tell us any error that you find, we will correct it as soon as possible.

If you want to know a specific statistic or you think that it could be interesting for the community, please share it with us and we will include it in next versions of this report.

# CC Statistics for 2019

These are the statistics on Common Criteria certifications for 2019. CCScraper has gathered the latest information about Common Criteria certified products and has generated related statistics up to 2019-12-31.

In 2019, **368** products have been certified, while 355 were certified in 2018. These numbers vary from those published solely in [commoncriteriaportal.org](http://commoncriteriaportal.org), since CCScraper also takes into account those products published in the web portals of Certification Bodies websites.

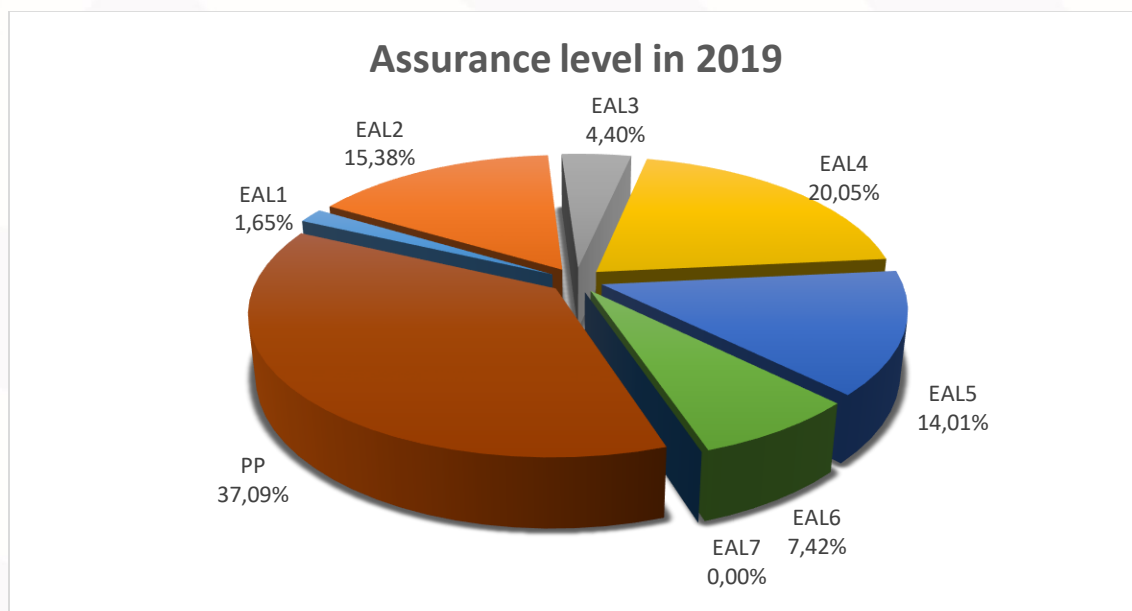
The details on those certifications are provided throughout this report.

## Assurance levels

In 2019, 151 high assurance evaluations (EAL4-EAL7) were carried out. Among those, we can find 73 EAL4 evaluations, 51 EAL5 evaluations and 27 EAL6 evaluations. No product was certified using EAL7 in 2019. In total, 41.4% of the certifications were high-assurance.

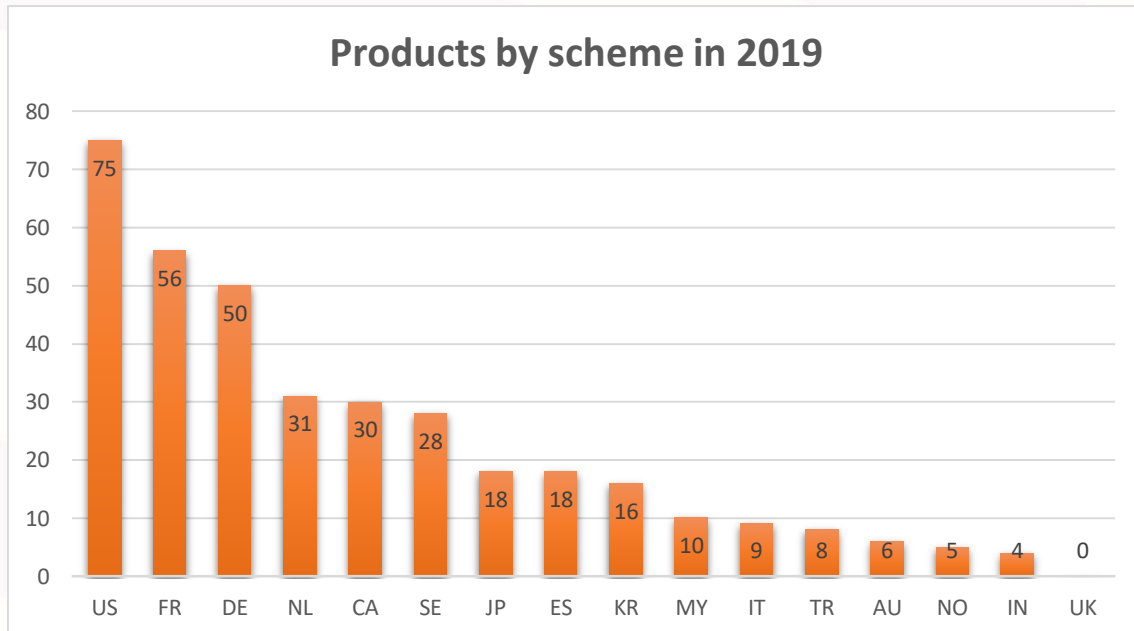
A total of 78 products were certified using low assurance evaluations (EAL1-EAL3), representing 21.4% of all the evaluations. The most frequent low assurance EAL was EAL2, with 56 certifications.

On the other hand, the trend to use Protection Profiles on evaluations has been even larger in 2019. Certifications using a Protection Profile with no EAL assigned were very frequent in 2019. In total, 135 products were certified with a Protection Profile without assigned EAL, representing 37.09% of all certifications in 2019.

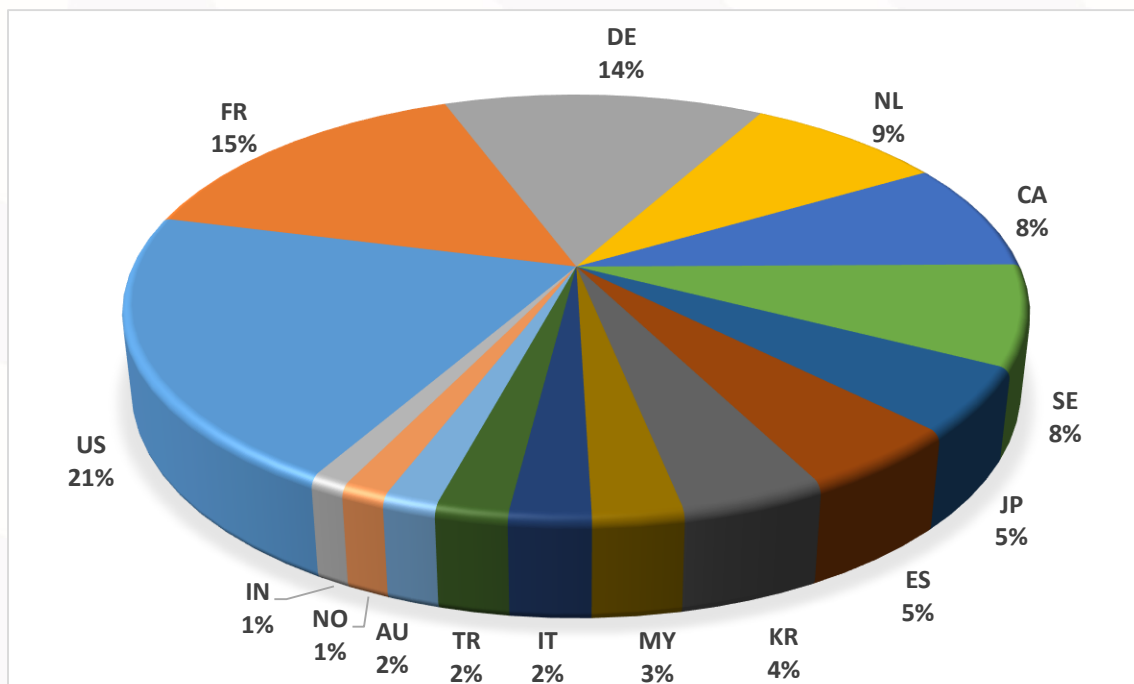


### Top Certifying Schemes

The top-three certifying schemes in 2019 United States, France and Germany with 75, 56 and 50 certified products respectively. These were followed by Netherlands (31), Canada (30) and Sweden (28).

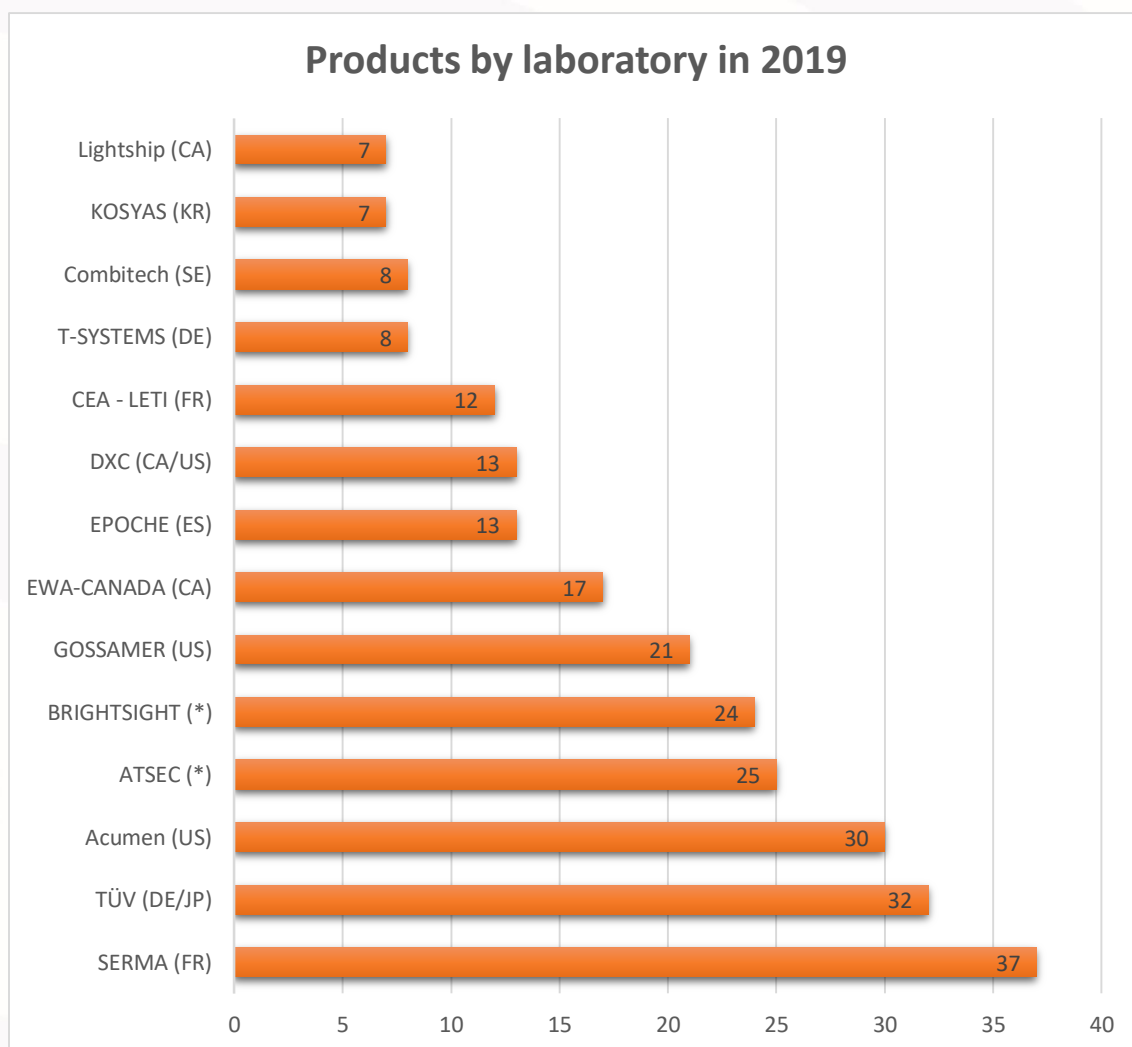


In terms of percentages, Top 3 schemes occupy the 50% of the certifications, while the next three schemes summed 25%:



### Top evaluation laboratories

The lab that evaluated the most products during 2019 was SERMA. The French firm took the first place with 37 products evaluated. TÜV (32), Acumen (30), ATSEC (25) and Brightsight (24) carried out a considerable number of evaluations as well, also in the top 5.



Still, we would like to mention the rest of laboratories that have certified at least one product this 2019.

With 6 evaluations: LEIDOS (US), MySEF (MY), ECSEC (JP), ECSEC Laboratory Inc. and SRC SECURITY (DE).

With 5 evaluations: Sikkerhet AS, APPLUS (ES), TOSHIBA and CCLab (HU).

With 4 evaluations: CCTL (US), Booz Allen (US), Telecommunications Technology Association (KR), BEAM (TR) and Riscure (NL).

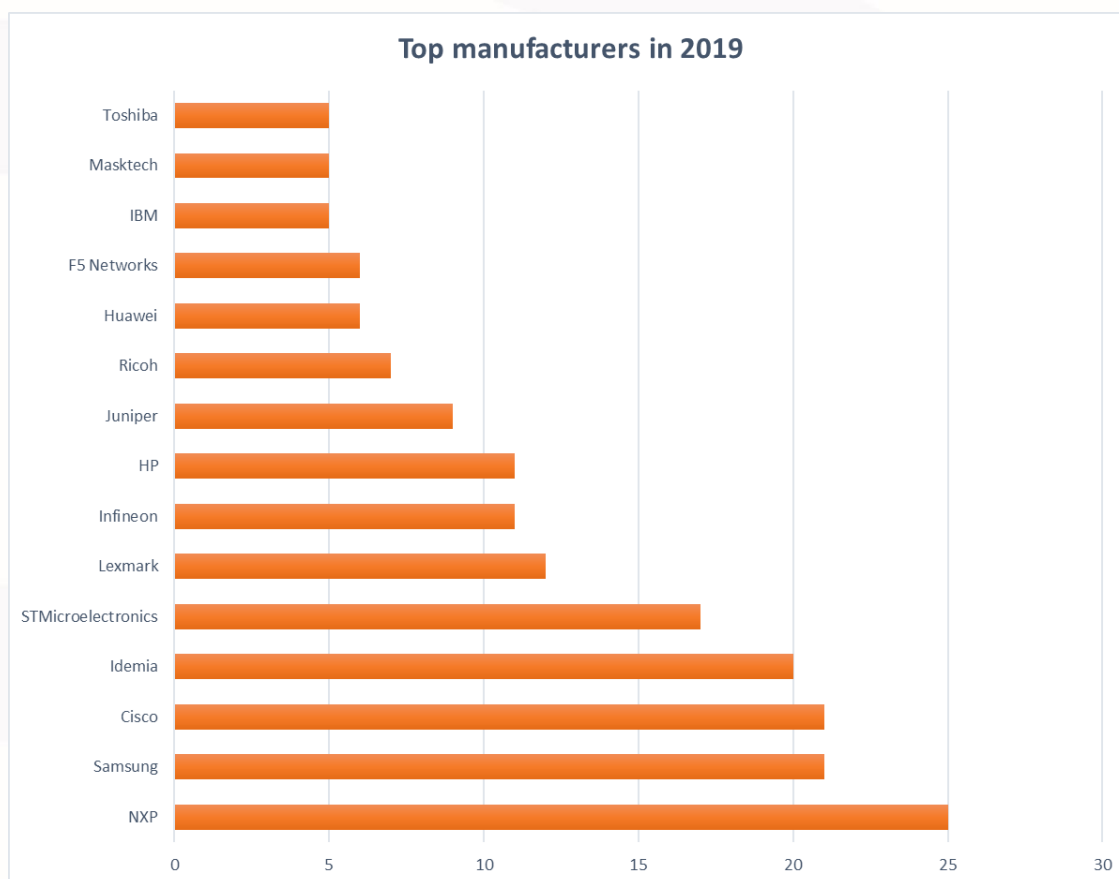
With 3 evaluations: Securelytics (MY), THALES (FR/NO), CGI IT (\*), CSC (\*) and CYGNACOM(\*).

With 2 evaluations: OKTEM (TR), BAE (\*), KSEL (KR), ERTL (IN).

With 1 evaluation: INFORMATION TECHNOLOGY SECURITY CENTER (JP), Oppida (FR), Korea Testing Certification (KR), secuvera (DE), ETDC (Bg) and LVS Leonardo.



## Top manufacturers



In the manufacturers ladder, we have NXP Semiconductors as a clear winner with 25 certified products. The Dutch firm has been able to conduct even more evaluations than last year (24 in 2018). Samsung and Cisco are close with 21 certified products, followed by Idemia with 20. STMicroelectronics is in the fifth place with 17 certified products.

The next ones in the list, with 10 or more certifications are Lexmark (12), Infineon (11) and HP (11). With 5 or more certifications, we can find Juniper (9), Ricoh (7), Huawei (6), IBM (6), Masktech (5) and Toshiba (5)

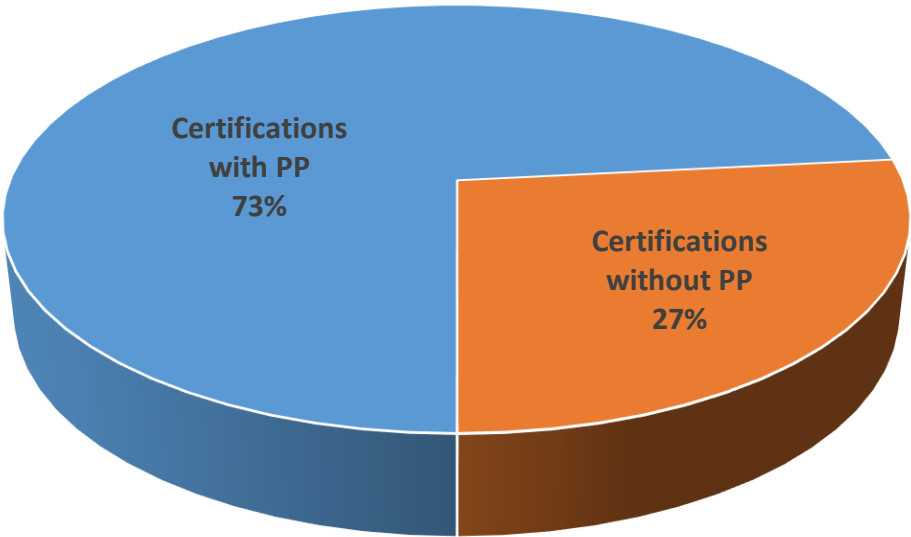
A lot of manufacturers have certified at least one product, and they are not in the above chart, but we would like to mention those who have reached at least 3 certifications.

With 4 certifications: KYOCERA Document Solutions Inc, Vertiv, Dell EMC and Belkin International. With 3 certifications: Microsoft Corporation, Sharp Corporation, Oracle Corporation, ST Engineering Electronics, T-Systems International GMBH, Fortinet, Inc., Apple Inc., CyberArk Software. Ltd, Utimaco and Xerox Corporation.

### Protection profiles

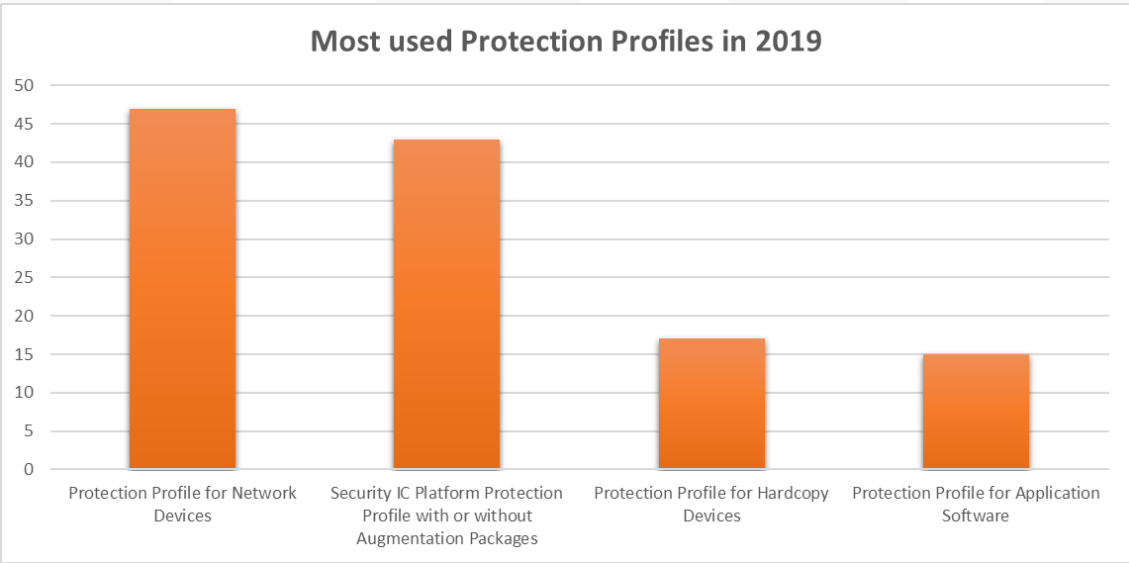
In 2019, 269 products out of 368 were certified using a Protection Profile (with or without EAL assigned), representing the 73% of the certifications in that year.

**Certifications with Protection Profiles in 2019**



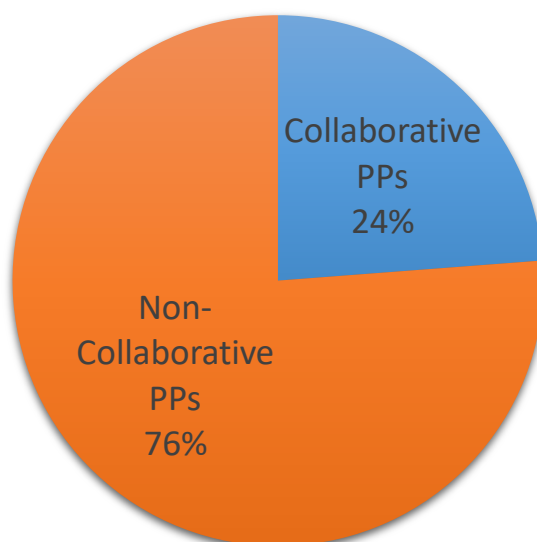
The statistic for top used PPs shows that the Protection Profile for Network Devices was the most used in 2019, with 47 products certified with compliance to it. It is followed by Security IC Platform PP with a total of 43 products (38 certifications with augmentation packages compliant to BSI-CC-PP-0084 and 5 without augmentation packages compliant to BSI-CC-PP-0035). 17 product certifications used the Protection Profile for Hardcopy Devices and 15 used the Protection Profile for Application Software.

**Most used Protection Profiles in 2019**



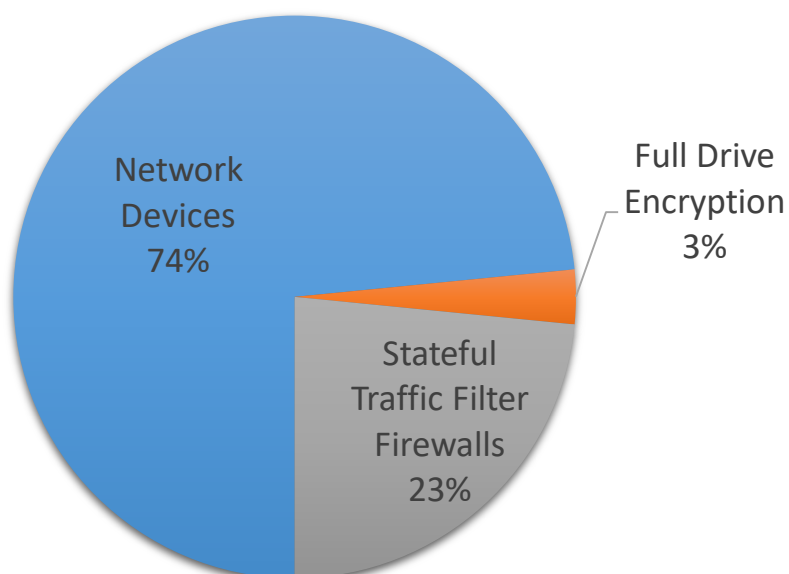
The use of Collaborative Protection Profile was very popular during 2019, representing 24% of total Protection Profile compliant certifications.

### Collaborative PPs vs Non-Collaborative PPs



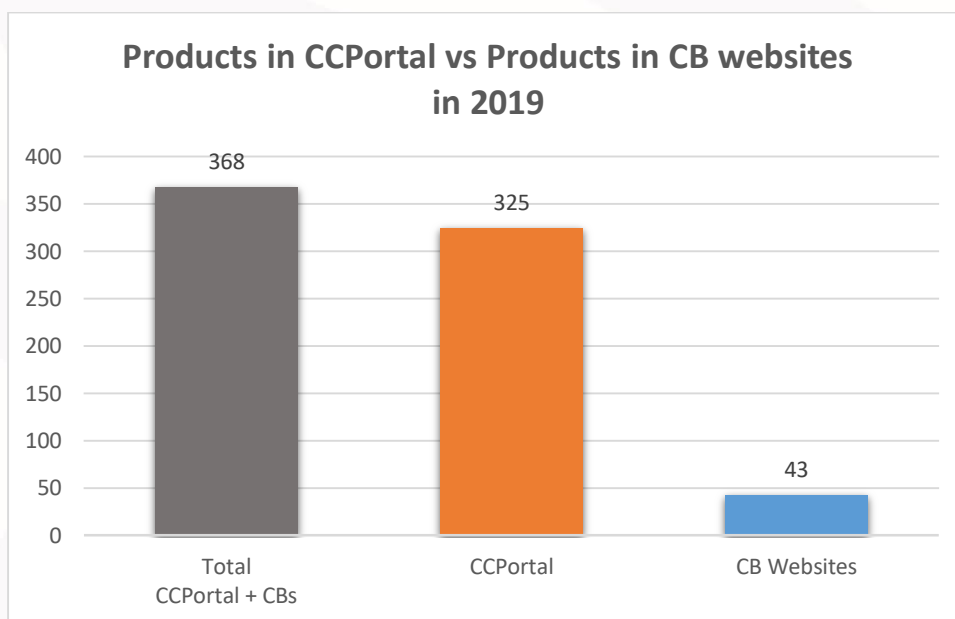
Among the Collaborative Protection Profiles, Network Devices Collaborative PP was by far the most significant: 74% of products certified in compliance with a Collaborative PP declared compliance with this protection profile.

### Collaborative PPs



### *CCScraper statistics vs Common Criteria Portal statistics*

CCScraper has counted 368 products certified in 2019. However, if we check the statistics of Common Criteria Portal, only 325 are reported as certified during 2019. This is because the data gathered by CCScraper include those products that are also published in the web portals of the different Certification Bodies. 43 products out of 368 were reported only in the websites of the different Certification Bodies and not in [commoncriteriaportal.org](http://commoncriteriaportal.org).

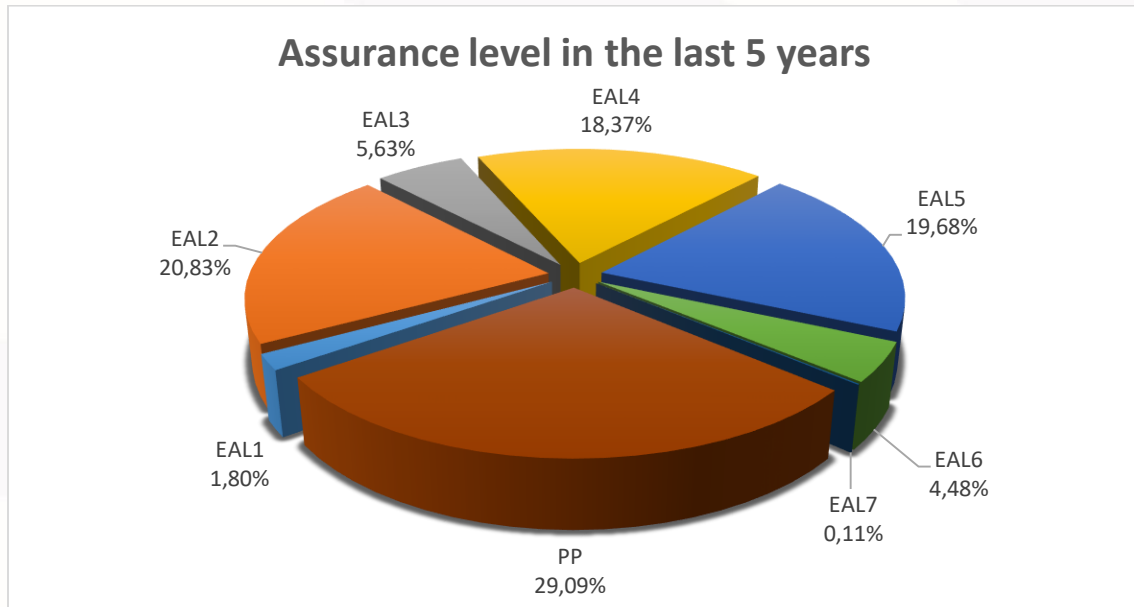


Among them, some products were duplicated, meaning the same product was reported multiple times either in Common Criteria Portal and/or in their respective Certification Body Portal. In Common Criteria Portal, some products are reported multiple times for different categories. This case is not common in the websites of Certification Bodies, nonetheless, one duplicated product was found in one of those websites. CCScraper takes care of this situation and correlates the duplicated information, in different websites or on the same website, in a smart way.

# Statistics for 5 years

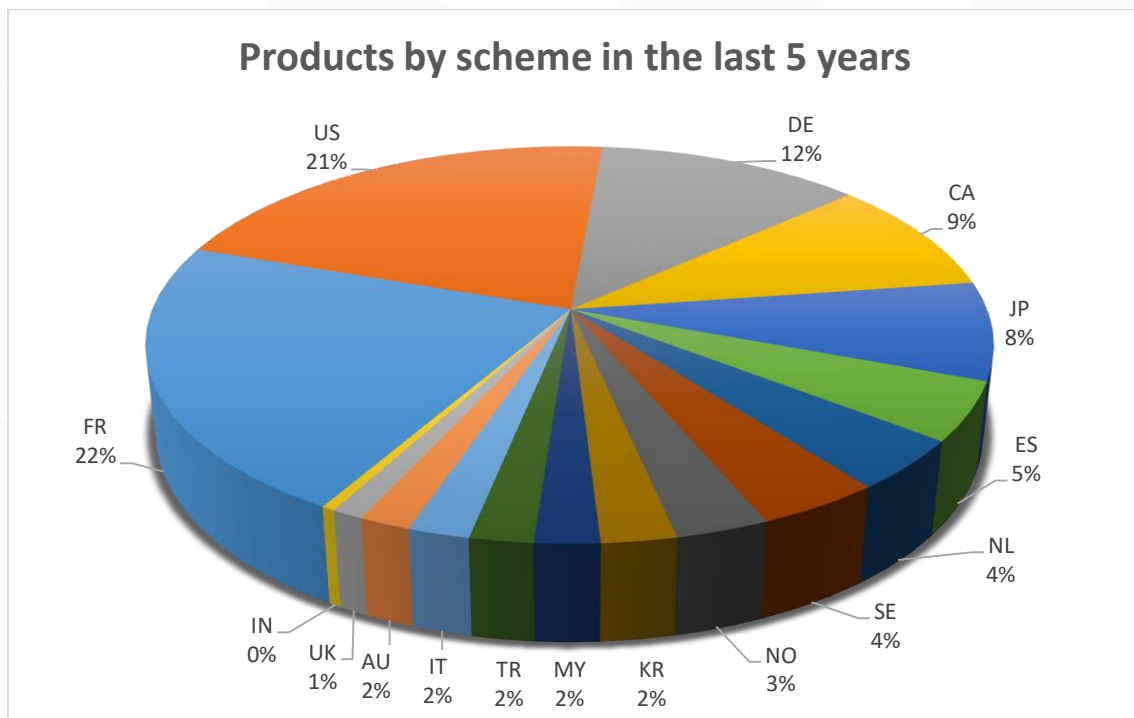
This section contains the trends in the last 5 years of Common Criteria, including products with certificate issued between 2015 and 2019, both included.

## Most used assurance levels



The trend during the last 5 years indicates that about 29% of the products are certified as PP-compliant (with no EAL assigned). EAL2 was the most used low assurance EAL, while high EALs (42,64%) were very frequent with EAL5 and EAL4 being the most used.

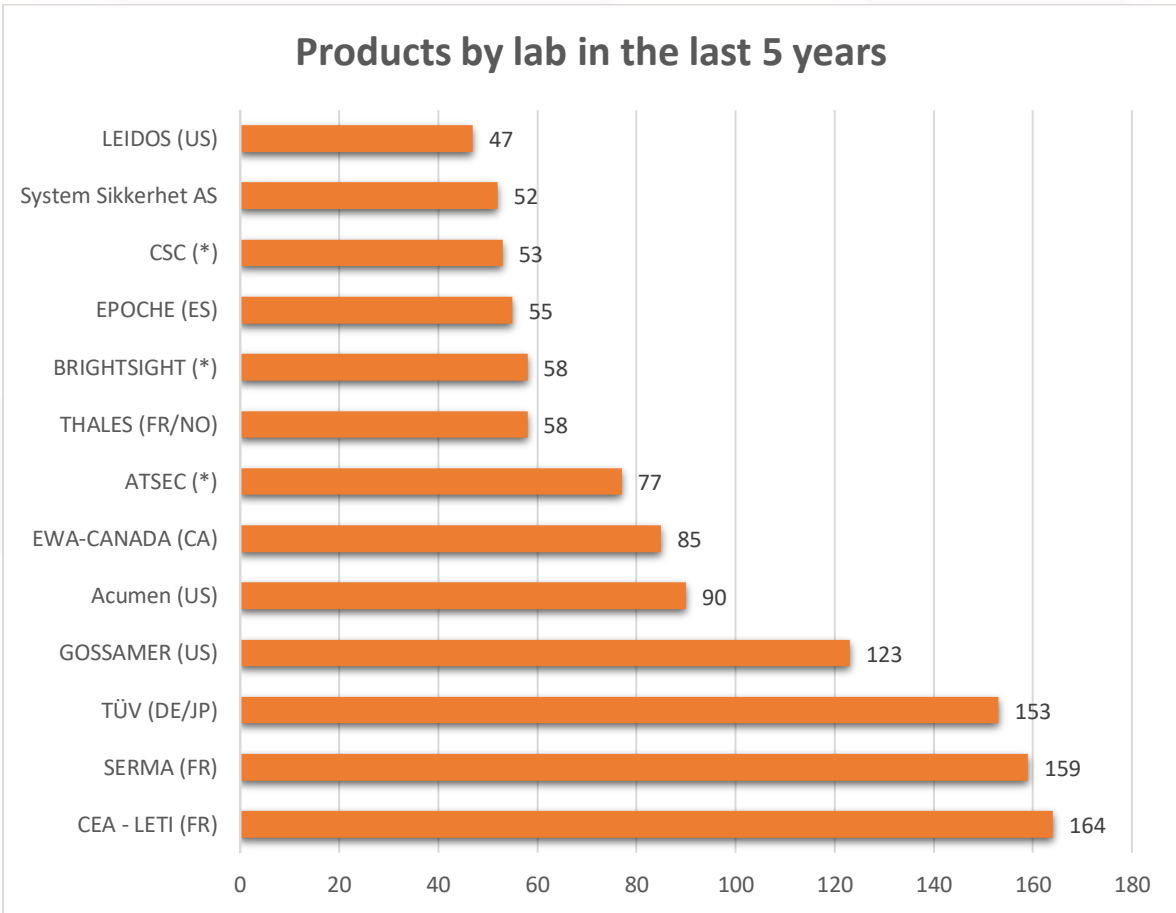
## Top certifying schemes





The French scheme was the one with most certification during the last 5 years (22% out of total) followed by the United States (21%). Germany, Canada and Japan were in the top 5 during that time. Spain, with 5%, was the third European scheme with most certification and the sixth in the world.

*Top laboratories*

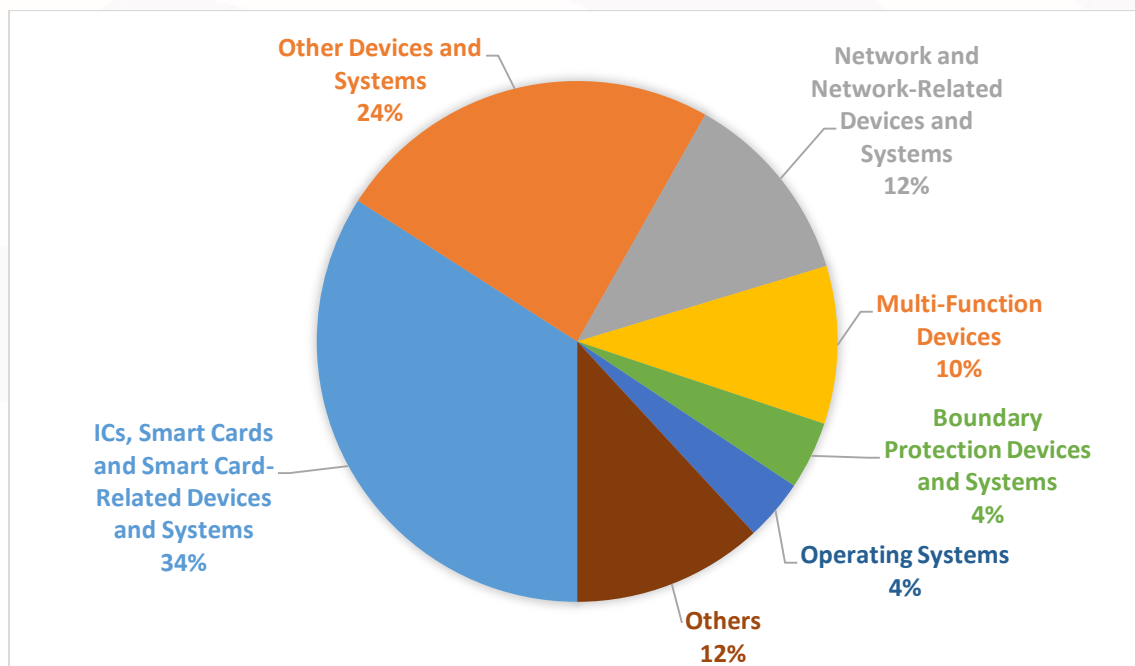


The trend for top laboratories is very similar to that in 2019, although with small variations in the order of the top 5 labs. CEA-LETI and SERMA are the winners, followed by TÜV and Gossamer. This indicates that the top three laboratories are European.

# Historical trends

This section contains historical trends from the very beginning of Common Criteria. Archived products (products where the certificate status is no longer valid) are included for the sake of completeness.

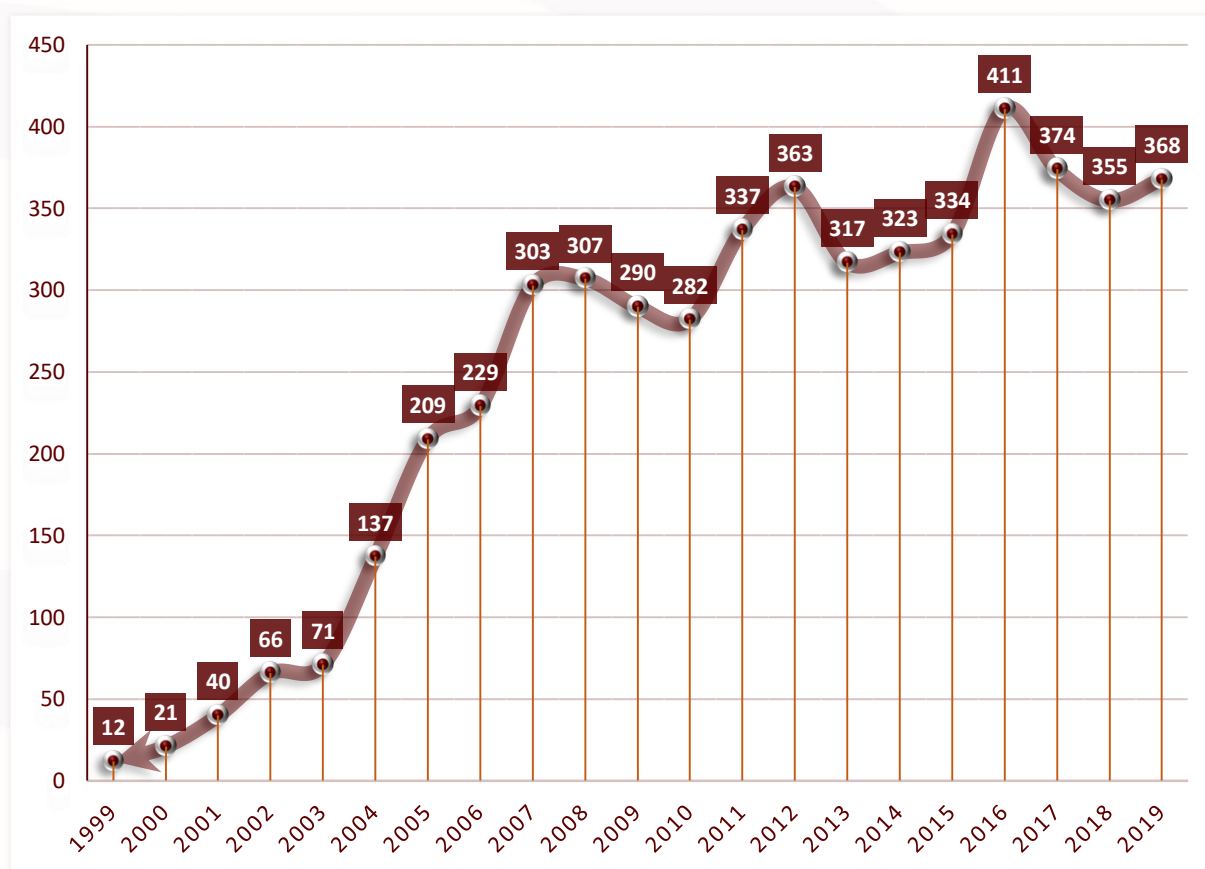
## Product categories



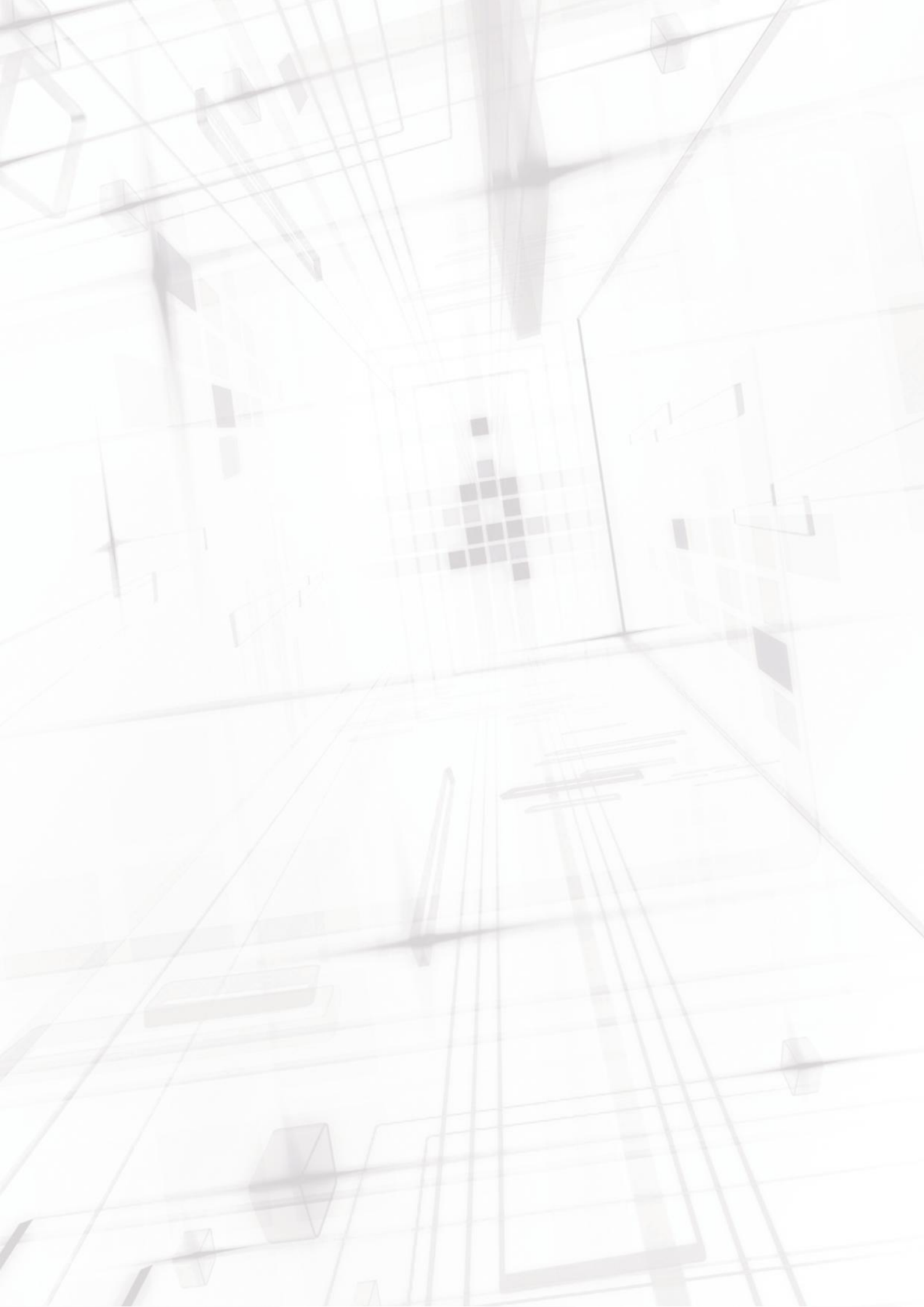
High-security ICs, smartcards and similar devices are the top certified category, with 34% of the total number of certifications. Network and multi-function devices, as well as other devices and systems complete the top-4, which mainly correspond to lower EALs.

Other varied categories add up to 12% of the total. Although not included in the pie chart, some of them need to be mentioned: Access Control Devices and Systems, Products for Digital Signatures and Databases.

Total number of certified products by year:



The overall historical trend is upwards without a doubt, although it has stabilized over the past five years. 2019 breaks a small downwards trend since 2016. Will it continue to grow during 2020?



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# CR

Career

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