

# CYBERSECURITY ASSURANCE PROGRAM CERTIFICATE

**Certificate Number:** ULCAP\_102  
**Date of Issue:** 2021-03-23  
**Date of Expiration:** 2022-03-23  
**Certificate Holder:** Twilio Inc  
101 Spear St, San Francisco, CA 94105, US  
**Certified Product:** Electric Imp Platform  
**Model:** Imp003, Imp004m, Imp005 and Imp006  
**Software Version:** 9360654b - release-42.1  
**Hardware Version:** Imp003 (SS6N12034 1CD)  
Imp004m (SS7405003 1MD)  
Imp005 (SS6407002 1GC)  
Imp006 (SS9N13004 1MW)

**Product Description:** The imp003, imp004, imp005, and imp006 are integrated computing modules designed to interact with the impCloud. Each imp microprocessor chips run impOS, which manages the on-board connectivity hardware to deliver secure communication with impCloud.

**Standard:** UL 2900-2-2  
**Edition Date:** MARCH 30, 2016  
**NIST Vuln Database Date:** 2021-03-15  
**Test Report Number:** 4789557940-003

This is to certify that representative sample(s) of the Product described herein have been investigated and as of the date of testing, found in compliance with the Standard(s) indicated on this Certificate. UL does not provide any representation or guarantee that all security vulnerabilities or weaknesses will be found or that the product will not be vulnerable, susceptible to exploitation, or eventually breached. The designated Certificate Holder is entitled to market the Product in accordance with the UL Global Services Agreement and Cybersecurity Assurance Program Service Terms. This Certificate shall remain valid until the indicated Expiration Date unless terminated earlier in accordance with the Service Agreement or if the referenced Standard is amended or withdrawn. This Certificate in and of itself does not authorize the Certificate Holder to use any UL trademarks on the Certified Product. UL trademarks may only be used if the Certified Product is also covered under the applicable UL mark program(s).



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Conformity Assessment Programs Office



# Conditions of Certificate

The following conditions must be met for the product to continue to be in compliance with this certificate:

- 1) The imp003, imp004m, imp005 and imp006 have only been tested as a component. End-product devices and end-product software containing the imp devices were not evaluated.
- 2) The following version of software included in the product is applicable:
  - a. impOS version 9360654b - release-42.1
  - b. mbedTLS version 2.6.0
  - c. OpenSSL version 1.1.0h
  - d. lwip version 2.1.2
  - e. Broadcom WICED SDK version 6.4
  - f. Broadcom BCM43907 peripheral drivers version 6.4
  - g. ST Micro peripheral drivers version 1.1.0
  - h. LZFX compression library version 0.1
  - i. Squirrel bytecode interpreter version 3.0.4
  - j. Newlib version 2.0.0
  - k. Libgcc version 8.2.0
  - l. Monocypher version 2.0.5
  - m. Bluekitchen BTstack 51fa0b2
  - n. Broadcom Wi-Fi firmware version 5.90.230.35
  - o. Broadcom Wi-Fi firmware version 7.45.98.50
  - p. Broadcom Wi-Fi firmware version 7.15.168.130
  - q. Broadcom Wi-Fi firmware version 7.45.189
- 3) The implementation of any product specific Cryptographic Module will have to be evaluated as a condition of certification.
- 4) The implementation of product specific Authentication in the Private Cloud will have to be evaluated as a condition of certification. Electric Imp customers are responsible for their own Certificate Authority and providing key for impOS builds/server images.
- 5) The implementation of product specific Security Event logging will have to be evaluated as a condition of certification. (possibly can be combined with number two)
- 6) The ability to erase all configuration data, sensitive data and personally identifiable data is product specific and will have to be evaluated as a condition of certification.
- 7) The implementation of account and privilege management is product specific and will have to be evaluated as a condition of certification.
- 8) Application code implemented on the device by a product owner will have to be evaluated as a condition of certificate.
- 9) SSH Bastion host is out of scope for this evaluation.
- 10) Therefore, if conditions arise where code or protocols implemented by the end product developers introduce risk or bypass security controls; these items would fall outside of the assessment of this certificate.
- 11) Fuzz testing of the encapsulated communication channel (enabled by an external TLS certificate compromise) has not been performed.

