

Kitemark™ Certificate

This is to certify that:

QV Holdings Ltd
QuoVadis Trustlink B.V.
Nevelgaarde 56 Noord
3436 ZZ Nieuwegein
The Netherlands

Holds Certificate Number:

ETS 030

In respect of:

ETSI EN 319 411-1 v1.1.1 (Trust Service Providers issuing certificates; Part 1: General requirements)

Delivers a Trust Services according to the requirements of the standard mentioned above for services specified (see page with detailed scope).

This issues the right and license to use the Kitemark in accordance with the Kitemark Terms and Conditions governing the use of the Kitemark, as may be updated from the time by BSI Assurance UK Ltd (the "Conditions"). All defined terms in this Certificate shall have the same meaning as in the Conditions..

The use of the Kitemark is authorized in respect of the Trust Services detailed on this Certificate provided at or from the addresses specified on following page(s).

For and on behalf of BSI:

Chris Lewis - Certification Director, Product Certification

First Issued: 2014-08-04

Latest Issue: 2018-09-27

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...making excellence a habit.™

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On the request of WiSeKey (Bermuda) Holding Ltd. in Bermuda, QuoVadis Trustlink B.V. in the Netherlands and QuoVadis Trustlink BVBA in Belgium (hereafter referred to as: QuoVadis), the annual certification audit on all areas and processes was performed by BSI Group The Netherlands B.V. (John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands) on behalf of BSI Assurance UK Ltd.

The full audit covered all applicable requirements from the audit criteria listed below (see "Audit Information") and are defined in QuoVadis' Statement of Applicability, dated 19 June 2018 and the Overview of Applicability, version 3.

The scope of the assessment comprised the following Trust Service Provider component services:

- Registration Service (p);
- Certificate Generation Service (c);
- Dissemination Service (c);
- Revocation Management Service (c);
- Revocation Status Service (c);
- Subject Device Provision Service (c);

The TSP component services are performed, partly (p) or completely (c) by subcontractors under the final responsibility of QuoVadis.

These TSP component services are being provided for:

- Issuance of public key certificates (non-qualified trust service), in accordance with the policies: NCP, NCP+, OVCP, EVCP and PTC

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Information and Contact: BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP. Tel: + 44 345 080 9000
BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.
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The certificates are issued through the issuing Certification Authorities, as specified below:

Root CA: Staat der Nederlanden Private Root CA - G1 (not in scope)**Domain CA: Staat der Nederlanden Private Personen CA - G1 (not in scope)****- Issuing CA: QuoVadis PKIoverheid Private Personen CA - G1**

- + PKIOverheid Private Personal Authenticity (OID 2.16.528.1.1003.1.2.8.1), in accordance with policy NCP+
- + PKIOverheid Private Personal Encryption (OID 2.16.528.1.1003.1.2.8.3), in accordance with policy NCP+

Domain CA: Staat der Nederlanden Private Services CA - G1 (not in scope)**- Issuing CA: QuoVadis PKIoverheid Private Services CA - G1**

- + PKIOverheid Private Services – Authenticity (OID 2.16.528.1.1003.1.2.8.4), in accordance with policy OVCP and PTC
- + PKIOverheid Private Services – Encryption (OID 2.16.528.1.1003.1.2.8.5), in accordance with policy OVCP and PTC
- + PKIOverheid Private Services – Server (OID 2.16.528.1.1003.1.2.8.6), in accordance with policy OVCP and PTC

Root CA: Staat der Nederlanden Root CA - G2 (not in scope)**Domain CA: Staat der Nederlanden Organisatie CA – G2 (not in scope)****- Issuing CA: QuoVadis CSP - PKI Overheid CA - G2**

- + PKIOverheid Organisation Personal User Authenticity G2 (OID 2.16.528.1.1003.1.2.5.1), in accordance with policy NCP+
- + PKIOverheid Organisation Personal User Encryption G2 (OID 2.16.528.1.1003.1.2.5.3), in accordance with policy NCP+
- + PKIOverheid Organisation Service Authenticity G2 (OID 2.16.528.1.1003.1.2.5.4), in accordance with policy NCP+
- + PKIOverheid Organisation Service Encryption G2 (OID 2.16.528.1.1003.1.2.5.5), in accordance with policy NCP+
- + PKIOverheid Organisation Service Server G2 (OID 2.16.528.1.1003.1.2.5.6), in accordance with policies OVCP and PTC

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Root CA: Staat der Nederlanden Root CA - G3 (not in scope)**Domain CA: Staat der Nederlanden Organisatie Persoon CA - G3 (not in scope)****- Issuing CA: QuoVadis PKIoverheid Organisatie Persoon CA - G3**

- + PKIoverheid Personal Organisation Authenticity G3 (OID 2.16.528.1.1003.1.2.5.1), in accordance with policy NCP+
- + PKIoverheid Personal Organisation Encryption G3 (OID 2.16.528.1.1003.1.2.5.3), in accordance with policy NCP+

Domain CA: Staat der Nederlanden Burger CA - G3 (not in scope)**- Issuing CA: QuoVadis PKIoverheid Burger CA - G3**

- + PKIoverheid Personal Citizen Authenticity G3 (OID 2.16.528.1.1003.1.2.3.1), in accordance with policy NCP+
- + PKIoverheid Personal Citizen Encryption (OID 2.16.528.1.1003.1.2.3.3), in accordance with policy NCP+

Domain CA: Staat der Nederlanden Organisatie Services CA - G3 (not in scope)**- Issuing CA: QuoVadis PKIoverheid Organisatie Services CA - G3**

- + PKIoverheid Organisation Service Authenticity G3 (OID 2.16.528.1.1003.1.2.5.4), in accordance with NCP+
- + PKIoverheid Organisation Service Encryption G3 (OID 2.16.528.1.1003.1.2.5.5), in accordance with policy NCP+

- Issuing CA: QuoVadis PKIoverheid Organisatie Server CA - G3

- + PKIoverheid Organisation Service Server G3 (OID 2.16.528.1.1003.1.2.5.6), in accordance with policies OVCP and PTC

Root CA: Staat der Nederlanden EV Root CA (not in scope)**Intermediate CA: Staat der Nederlanden EV Intermediair CA (not in scope)****- Issuing CA: QuoVadis PKIoverheid EV CA**

- + PKIoverheid EV SSL (OID 2.16.528.1.1003.1.2.7), in accordance with policy EVCP

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Root CA: QuoVadis Root CA 1 G3

Intermediate CA: QuoVadis Enterprise Trust CA 1 G3

- **Issuing CA: QuoVadis EU Issuing Certification Authority G4**
 - + QV Advanced (OID 0.4.0.2042.1.1), in accordance with policy NCP
 - + QV Advanced + (OID 0.4.0.2042.1.2), in accordance with policy NCP+

- **Issuing CA: QuoVadis Belgium Issuing CA G2**
 - + QV Advanced (OID 0.4.0.2042.1.1), in accordance with policy NCP
 - + QV Advanced + (OID 0.4.0.2042.1.2), in accordance with policy NCP+



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The TSP component services are documented in the following Certification Practice Statements:

- QuoVadis CP/CPS for Root CA and Root CA3 (V4.22), 31 January 2018
- QuoVadis CP/CPS for Root CA2 (V2.3), 31 January 2018
- QuoVadis CP/CPS PKIoverheid Burger (V1.5), 1 June 2018
- QuoVadis CP/CPS PKIoverheid Extended Validation (V1.5), 1 June 2018
- QuoVadis CP/CPS PKIoverheid Domeinen Organisatie (G2), Organisatie Persoon (G3) (V1.6), 1 June 2018
- QuoVadis CP/CPS PKIoverheid Domeinen Organisatie (G2), Organisatie Services (G3) (V1.7), 1 June 2018
- QuoVadis CP/CPS PKIoverheid Domeinen Organisatie (G2), Organisatie Services Server (G3) (V1.7), 1 June 2018
- QuoVadis CP/CPS PKIoverheid Domein Private Personen (G1), (V1.1), 1 June 2018
- QuoVadis CP/CPS PKIoverheid Domein Private Services G1, (V1.1), 1 June 2018
- QuoVadis CP/CPS PKIoverheid Domein Private Services (server) G1, (V1.1), 1 June 2018
- QuoVadis PKI Disclosure Statement (V1.1)

Our annual certification audit was performed in May and June 2018. The result of the full audit is that we conclude, based on the objective evidence collected during the certification audit from 1 June 2017 through 31 May 2018, the areas assessed during the audit were generally found to be effective, based on the applicable requirements defined in QuoVadis' Statement of Applicability, dated 19 June 2018 and the Overview of Applicability, version 3.

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Audit information:

Root CA:

Staat der Nederlanden Private Root CA - G1 (not in scope)

Domain CA:

Staat der Nederlanden Private Services CA - G1 (not in scope)

Issuing CA:

QuoVadis PKIoverheid Private Services CA - G1

Sha256 Fingerprint:

69:DF:8D:18:C5:45:03:F8:3D:C2:39:C3:DC:F8:11:5B:2A:44:7E:FC:5D:EF:CA:61:19:D1:8E:98:8C:12:27:6D

Domain CA:

Staat der Nederlanden Private Personen CA - G1 (not in scope)

Issuing CA:

QuoVadis PKIoverheid Private Personen CA - G1

Sha256 Fingerprint:

A5 F7 15 0B C3 58 D1 49 8B FD D8 EB 39 73 23 62 DC B6 A9 03 F5 74 51 B9 30 36 3B DF AF 83 5B A4

Root CA:

Staat der Nederlanden Root CA - G2 (not in scope)

Domain CA:

Staat der Nederlanden Organisatie CA - G2 (not in scope)

Issuing CA:

QuoVadis CSP - PKI Overheid CA - G2

Sha256 Fingerprint:

2A A5 35 0D 04 FF 5F 36 EB CA A3 27 F0 A4 75 2D 1A 06 17 50 D8 CE 6D 9E 79 37 A6 22 4D DB 12 A4

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Root CA:

Staat der Nederlanden Root CA - G3 (not in scope)

Domain CA:

Staat der Nederlanden Organisatie Persoon CA - G3 (not in scope)

Issuing CA:

QuoVadis PKIoverheid Organisatie Persoon CA - G3

Sha256 Fingerprint:

15 07 3C 6B BD C7 46 99 A8 85 18 C2 7A 57 C9 56 E5 E2 3D 6C A9 61 9E 52 1A 46 8C 78 73 DE 4F 8A

Domain CA:

Staat der Nederlanden Burger CA - G3 (not in scope)

Issuing CA:

QuoVadis PKIoverheid Burger CA - G3

Sha256 Fingerprint:

D4 1D 23 C5 15 59 F6 5E 5C 22 50 3D 7A 7A BF 5C D9 65 EC 39 C6 1C 69 8A 7D 98 D7 97 AF 70 7B 48

Domain CA:

Staat der Nederlanden Organisatie Services CA - G3 (not in scope)

Issuing CA:

QuoVadis PKIoverheid Organisatie Server CA - G3

Sha256 Fingerprint:

85 36 3A 24 CB 1B 66 E6 CF 62 44 E8 7D 24 3D BB 83 06 F6 07 35 7C 61 4C B9 C4 C2 24 A0 E0 43 58

Issuing CA:

QuoVadis PKIoverheid Organisatie Services CA - G3

Sha256 Fingerprint:

BE CF DE 12 4C ED D3 44 D9 25 CB 55 ED DA 66 2D 9A 9C 06 88 FA 9A 08 70 CE 3D BB 6D A4 31 3E 4E

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Root CA:

Staat der Nederlanden EV Root CA (not in scope)

Domain CA:

Staat der Nederlanden EV Intermediair CA (not in scope)

Issuing CA:

QuoVadis PKIoverheid EV CA

Sha256 Fingerprint:

ED 3D B7 48 D6 D7 8E EF F0 B9 45 2B C6 A0 2E 03 90 39 C5 50 75 A4 39 32 3B 8B A8 5F B2 1B 9D DA

Root CA:

QuoVadis Root CA 1 G3

Intermediate CA:

QuoVadis Enterprise Trust CA 1 G3

Issuing CA:

QuoVadis EU Issuing Certification Authority G4

Sha256 Fingerprint:

0D D8 18 22 89 90 D8 3F CE 9F 9D CA 7B 5C C4 4E D3 18 ED D1 63 99 98 7E A8 93 87 7E A5 2D E1 1E

Issuing CA:

QuoVadis Belgium Issuing CA G2

Sha256 Fingerprint:

D9 0B 40 13 23 06 D1 09 46 08 B1 B9 A2 F6 A9 E2 3B 45 FE 12 1F EF 51 4A 1C 9D F7 0A 81 5A D9 5C

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Audit criteria:

- ETSI EN 319 401 v2.1.1 (2016-02) General Policy Requirements for Trust Service Providers
- ETSI EN 319 411-1 v1.1.1 (2016-02) Electronic Signatures and Infrastructures (ESI) - Policy and security requirements for Trust Service Providers issuing certificates - Part 1: General requirements, , for the policies: NCP, NCP+, OVCP and PTC, EVCP;
- CA/Browser Forum – Baseline Requirements Certificate Policy for the Issuance and Management of Publicly-Trusted Certificates v1.5.7 (29 April 2018);
- CA/Browser Forum – Guidelines for the Issuance and Management of Extended Validation Certificates v1.6.8 (21 December 2017);
- CA/Browser Forum - Network and Certificate System Security Requirements v1.1 (9 March 2018);
- Regulation (EU) N 910/2014 of the European Parliament and of the Council on electronic identification and trust services for electronic transactions in the internal market and repealing Directive 1999/93/EC, Chapter III – Trust Services.
- PKIoverheid - Programma van Eisen v4.6, deel 3 Basiseisen, deel 3 Aanvullende eisen and the requirements from parts 3a, 3b, 3c, 3e, 3f, 3g, 3h and 3i.

Audit Period of Time:

1 June 2017 – 31 May 2018

Audit performed:

May and June 2018

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Location	Certified Activities
QV Holdings Ltd QuoVadis Trustlink B.V. Nevelgaarde 56 Noord 3436 ZZ Nieuwegein The Netherlands	Certificate scope applies.
QuoVadis Trustlink BVBA Schaliënhoevedreef 20T Mechelen 2800 Belgium	Certificate scope applies.
QuoVadis Group Washington Mall 7 Reid Street Third Floor Hamilton HM 11 Bermuda	Certificate scope applies.



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