

## Report of Independent Accountants

To the Management of QuoVadis Limited

We have examined the accompanying [assertion](#) made by the management of QuoVadis Limited (QuoVadis), titled **Management's Assertion Regarding the Effectiveness of Its Controls Over its Certification Authority Operations Based on the WebTrust Principles and Criteria for Certification Authorities v2.2.1** that provides its Certification Authority (CA) services at Bermuda; the Netherlands; Switzerland; the United Kingdom; Belgium and Germany, for the Root CAs and Subordinate CAs referenced in [Appendix A](#) during the period from 1 January 2021 through 31 December 2021, QuoVadis has:

- ▶ Disclosed its Business, Key Life Cycle Management, Certificate Life Cycle Management, and CA Environmental Control practices in its Certificate Practice Statement, and Certificate Policy:
  - ▶ for the QuoVadis Root CA, QuoVadis Root CA 1 G3, QuoVadis Root CA 3, and QuoVadis Root CA 3 G3, in the [QuoVadis Root CA 1 / Root CA 3 Certificate Policy / Certification Practice Statement, version 4.37](#) dated 20 December 2021; and
  - ▶ for the QuoVadis Root CA 2, QuoVadis Root CA 2 G3, in the [QuoVadis Root CA 2 Certification Policy/ Certification Practice Statement, version 2.16](#) dated 20 December 2021.
- ▶ Maintained effective controls to provide reasonable assurance that:
  - ▶ QuoVadis' Certificate Practice Statement is consistent with its Certificate Policy; and
  - ▶ QuoVadis provides its services in accordance with its Certificate Policy and Certificate Practice Statement,
- ▶ Maintained effective controls to provide reasonable assurance that:
  - ▶ The integrity of keys and certificates it manages is established and protected throughout their life cycles;
  - ▶ The integrity of subscriber keys and certificates it manages is established and protected throughout their life cycles;
  - ▶ Subscriber information is properly authenticated (for the registration activities performed by QuoVadis); and
  - ▶ Subordinate CA certificate requests are accurate, authenticated, and approved,
- ▶ Maintained effective controls to provide reasonable assurance that:
  - ▶ Logical and physical access to CA systems and data was restricted to authorized individuals;
  - ▶ The continuity of key and certificate management operations was maintained; and
  - ▶ CA systems development, maintenance and operations were properly authorized and performed to maintain CA systems integrity,

based on the [WebTrust Services Principles and Criteria for Certification Authorities Version 2.2.1](#).



QuoVadis' management is responsible for its assertion and for specifying the aforementioned Criteria. Our responsibility is to express an opinion on management's assertion based on our examination.

Our examination was conducted in accordance with attestation standards established by the AICPA. Those standards require that we plan and perform our examination to obtain reasonable assurance about whether management's assertion is fairly stated, in all material respects. An examination involves performing procedures to obtain evidence about management's assertion, which includes: (1) obtaining an understanding of QuoVadis' key and certificate life cycle management business practices, policies, processes and controls, and its suitability of the design and implementation of the controls intended to achieve the Criteria and examining evidence supporting management's assertion and performing such other procedures over key and certificate integrity, over the authenticity and confidentiality of subscriber and relying party information, over the continuity of key and certificate life cycle management operations, and over the development, maintenance and operation of systems integrity as we considered necessary in the circumstances; (2) selectively testing transactions executed in accordance with disclosed key and certificate life cycle management business practices; (3) testing and evaluating the operating effectiveness of the controls; and (4) performing such other procedures as we considered necessary in the circumstances. The nature, timing, and extent of the procedures selected depend on our judgment, including an assessment of the risk of material misstatement, whether due to fraud or error. We believe that the evidence we obtained is sufficient and appropriate to provide a reasonable basis for our opinion.

QuoVadis Management has disclosed to us the attached comments ([Appendix B](#)) that have been posted publicly in the online forums of the CA/Browser Forum, as well as the online forums of individual internet browsers that comprise the CA/Browser Forum. We have considered the nature of these comments in determining the nature, timing, and extent of our procedures.

The relative effectiveness and significance of specific controls at QuoVadis and their effect on assessments of control risk for subscribers and relying parties are dependent on their interaction with the controls, and other factors present at individual subscriber and relying party locations. We have performed no procedures to evaluate the effectiveness of controls at individual subscriber and relying party locations.

Our examination was not conducted for the purpose of evaluating QuoVadis' cybersecurity risk management program. Accordingly, we do not express an opinion or any other form of assurance on its cybersecurity risk management program.

There are inherent limitations in the effectiveness of any system of internal control, including the possibility of human error and the circumvention of controls. Because of inherent limitations in its internal control, QuoVadis may achieve reasonable, but not absolute assurance that all security events are prevented and, for those controls may provide reasonable, but not absolute assurance that its commitments and system requirements are achieved. Controls may not prevent or detect and correct, error, fraud, unauthorized access to systems and information, or failure to comply with internal and external policies or requirements.

Examples of inherent limitations of internal controls related to security include (a) vulnerabilities in information technology components as a result of design by their manufacturer or developer; (b) breakdown of internal control at a vendor or business partner; and (c) persistent attackers with the resources to use advanced technical means and sophisticated social engineering techniques specifically targeting the entity. Furthermore, the projection of any evaluations of effectiveness to future periods is subject to the risk that controls may become inadequate because of changes in conditions, that the



degree of compliance with such controls may deteriorate, or that changes made to the system or controls, or the failure to make needed changes to the system or controls, may alter the validity of such evaluations.

In our opinion, QuoVadis management's assertion referred to above, is fairly stated, in all material respects, based on the aforementioned criteria.

The WebTrust seal of assurance for Certification Authority on QuoVadis' website constitutes a symbolic representation of the contents of this report and it is not intended, nor should it be construed, to update this report or provide any additional assurance.

This report does not include any representation as to the quality of QuoVadis' CA services beyond those covered by the [WebTrust Services Principles and Criteria for Certification Authorities Version 2.2.1](#) criteria, or the suitability of any of QuoVadis' services for any customer's intended purpose.

*Ernst & Young LLP*

Ernst & Young LLP

31 March 2022

**Management's Assertion Regarding the Effectiveness of Its Controls  
Over its Certification Authority Operations Based on the  
WebTrust Principles and Criteria for Certification Authorities v2.2.1**

31 March 2022

We, as management of QuoVadis Limited are responsible for operating a Certification Authority (CA) in Bermuda, the Netherlands, Switzerland, the United Kingdom, Belgium and Germany for the Root CAs and Subordinate CAs listed in the [Appendix A](#). QuoVadis' CA services provide the following certification authority services:

- Subscriber Key Management Services
- Subscriber Registration
- Certificate Renewal
- Certificate Rekey
- Certificate Issuance
- Certificate Distribution
- Certificate Revocation
- Certificate Status Information Processing

Management of QuoVadis is responsible for establishing and maintaining effective controls over its CA operations, including CA business practices disclosure in QuoVadis' Certificate Practice Statement, CA business practices management, CA environmental controls, CA key lifecycle management controls, subscriber key lifecycle management controls, certificate lifecycle management controls, and subordinate CA certificate lifecycle management controls. These controls contain monitoring mechanisms, and actions are taken to correct deficiencies identified.

Controls have inherent limitations, including the possibility of human error and the circumvention or overriding of controls. Accordingly, even effective controls can provide only reasonable assurance with respect to QuoVadis' CA operations. Furthermore, because of changes in conditions, the effectiveness of controls may vary over time.

Management of QuoVadis has assessed the disclosure of its certificate practices and its controls over its CA operations. Based on that assessment, in QuoVadis management's opinion, in providing its CA services for the Root CA(s) and Subordinate CA(s) listed in [Appendix A](#) in Bermuda, the Netherlands, Switzerland, the United Kingdom, Belgium and Germany, during the period from 1 January 2021 through 31 December 2021, QuoVadis has:

- Disclosed its Business, Key Life Cycle Management, Certificate Life Cycle Management, and CA Environmental Control practices as below:
  - for the QuoVadis Root CA, QuoVadis Root CA 1 G3, QuoVadis Root CA 3, and QuoVadis Root CA 3 G3, in the [QuoVadis Root CA 1 / Root CA 3 Certificate Policy / Certification Practice Statement, version 4.37](#) dated 20 December 2021; and
  - for the QuoVadis Root CA 2, QuoVadis Root CA 2 G3, in the [QuoVadis Root CA 2 Certification Policy/ Certification Practice Statement, version 2.16](#) dated 20 December 2021.
- Maintained effective controls to provide reasonable assurance that:
  - QuoVadis' Certificate Practice Statement is consistent with its Certificate Policy; and
  - QuoVadis provides its services in accordance with its Certificate Policy and Certificate Practice Statement.
- Maintained effective controls to provide reasonable assurance that:

- The integrity of keys and certificates it manages was established and protected throughout their life cycles;
- The integrity of subscriber keys and certificates it manages was established and protected throughout their life cycles;
- Subscriber information was properly authenticated (for the registration activities performed by QuoVadis); and
- Subordinate CA certificate requests were accurate, authenticated, and approved,
- Maintained effective controls to provide reasonable assurance that:
  - Logical and physical access to CA systems and data was restricted to authorized individuals;
  - The continuity of key and certificate management operations was maintained; and
  - CA systems development, maintenance and operations were properly authorized and performed to maintain CA systems integrity

for the QuoVadis Root CA, QuoVadis Root CA 1 G3, QuoVadis Root CA 2, QuoVadis Root CA 2 G3, QuoVadis Root CA 3, QuoVadis Root CA 3 G3, and the issuing CAs listed in [Appendix A](#) in accordance with the [WebTrust Services Principles and Criteria for Certification Authorities Version 2.2.1](#), including the following:

### **CA Business Practices Disclosure**

CA Business Practices Management  
 Certification Practice Statement Management  
 Certificate Policy Management  
 CP and CPS Consistency

### **Service Integrity**

CA Key Life Cycle Management Controls  
 CA Key Generation  
 CA Key Storage, Backup, and Recovery  
 CA Public Key Distribution  
 CA Key Usage  
 CA Key Archival and Destruction  
 CA Key Compromise  
 CA Cryptographic Hardware Life Cycle Management  
 CA Key Escrow

Subscriber Key Life Cycle Management Controls  
 CA- Provided Subscriber Key Generation Services  
 CA-Provided Subscriber Key Storage and Recovery Services  
 Integrated Circuit Card Life Cycle Management  
 Requirements for Subscriber Key Management

Certificate Life Cycle Management Controls  
 Subscriber Registration  
 Certificate Renewal  
 Certificate Rekey  
 Certificate Issuance  
 Certificate Distribution

Certificate Revocation  
Certificate Validation

Subordinate CA Certificate Life Cycle Management Controls  
Subordinate CA Certificate Life Cycle Management

**CA Environmental Controls**

Security Management  
Asset Classification and Management  
Personnel Security  
Physical and Environmental Security  
Operations Management  
System Access Management  
Systems Development and Maintenance  
Business Continuity Management  
Monitoring and Compliance  
Audit Logging

Very truly yours,



Anthony Nagel  
Director  
QuoVadis Limited

Appendix A to Assertion of Management

Distinguished name	Certificate Serial Number	SHA256 fingerprint
CN = QuoVadis Root Certification Authority OU = Root Certification Authority O = QuoVadis Limited C = BM	3ab6508b	A45EDE3BBBF09C8AE15C72EFC07268D693A21C996FD51E67CA079460FD6D8873
CN = QuoVadis Root CA 1 G3 O = QuoVadis Limited C = BM	78585f2ead2c194 be337073534132 8b596d46593	8A866FD1B276B57E578E921C65828A2BED58E9F2F288054134B7F1F4BFC9CC74
CN = QuoVadis Root CA 2 O = QuoVadis Limited C = BM	509	85A0DD7DD720ADB7FF05F83D542B209DC7FF4528F7D677B18389FEA5E5C49E86
CN = QuoVadis Root CA 2 G3 O = QuoVadis Limited C = BM	445734245b8189 9b35f2ceb82b3b5 ba726f07528	8FE4FB0AF93A4D0D67DB0EBBB23E37C71BF325DCBCDD240EA04DAF58B47E1840
CN = QuoVadis Root CA 3 O = QuoVadis Limited C = BM	05c6	18F1FC7F205DF8ADDDEB7FE007DD57E3AF375A9C4D8D73546BF4F1FED1E18D35
CN = QuoVadis Root CA 3 G3 O = QuoVadis Limited C = BM	2ef59b0228a7db7 affd5a3a9eebd03 a0cf126a1d	88EF81DE202EB018452E43F864725CEA5FBD1FC2D9D205730709C5D8B8690F46
CN = HydrantID EV SSL CA G2 O = HydrantID (Avalanche Cloud Corporation) C = US	3c1e96137ee4205 7973ce498cb50da ae4c1e3c48	60388B773D33E9141648613F36B9149F015A114378BACF3E3694864FFDA426EC
CN = HydrantID SSL CA G3 O = HydrantID (Avalanche Cloud Corporation) C = US	723b6fe5c252754 d2189b09155521 a3187916db8	AA57F482CBC516B4D10CA4097DD90D99F5AA727D207090D07DA9C36998ABB9AD
CN = QuoVadis Europe Advanced CA G1 O = QuoVadis Trustlink Deutschland GmbH 2.5.4.97 = VATDE-DE296898382 C = DE	2332c55aee40851 89ac0b6e83946ce d64ba74e6a	8E5CEA1D1012521C27A4E11270702BC7C9A1156F135073D6CA4E42EEE826249E

Distinguished name	Certificate Serial Number	SHA256 fingerprint
CN = QuoVadis Grid ICA G2 O = QuoVadis Limited C = BM	2bafc5f0a8d21340 9da42e761f619ac 91984bcd4	278ECF211E2518E9DD9913AFC583EEB3127C8184BCBEEDAAD7BD64E89E8C4310
CN = itsme Sign Issuing CA G2x O = DigiCert Europe Belgium B.V. C = BE	4939956646c656b 23b47d6e0b93cc1 fcfd21e32e	B965A4354E7E1FFEDD1F947F13B065819B3A53C6889DC643E1D0D4C514AB68AE
CN = QuoVadis Swiss Advanced CA G3 O = QuoVadis Trustlink Schweiz AG 2.5.4.97 = NTRCH-CHE-112.210.349 C = CH	41e89ed3562149c 894bddb7bdedd7 ec569c72490	31A7C579F24D5562CDB203FA15A9F2C3FF5DC1F2E6BF7C0BD95FBCB0114C8D21
CN = QuoVadis Qualified Web ICA G2 O = QuoVadis Trustlink B.V. C = NL	53bd8dc20d4a46b d962f5d685ada0f 0659207ffd	7FEB9374EAB08D392717C647436DAE06176A24C010607FDA1CCE5E5F0106B472
CN = QuoVadis Global SSL ICA G2 O = QuoVadis Limited C = BM	1a6ee893c374973 8e12acc77a8c0a cb167eaf14	F67C23EF7BF7412809DB6B1DD3D44A08D3754D99CABA6A13F7A05C7249089C89
CN = VR IDENT EV SSL CA 2020 O = Fiducia & GAD IT AG C = DE	754151cc11ec89b 64649b230ad809 020bb1e66a5	D33A847F640377BE0AE1A429153A07E87C8827FA4840B5158BCDCB85E10A453A
CN = HydrantID EV SSL ICA G1 O = HydrantID (Avalanche Cloud Corporation) C = US	0662a008800498f e4d810b24bb822 d0bd23b90dc	6B43B4C243AA2D99440C0F14BDEC5231EEC63E86AAF2376CA7002028458DC726
CN = QuoVadis Swiss Regulated CA G3 O = QuoVadis TrustLink Schweiz AG C = CH	60c1ee68db921da 2608daea13785b 3d248f2ac9f	726FB1F3D9FBFE0B4043004A27A43CF65CB214363B093034FC4185C86C9D8B0D
CN = QuoVadis Europe Advanced CA G2 O = QuoVadis Trustlink Deutschland GmbH C = DE	0abe1294959812 29df221937401e9 2140ada9bdd	EBCD0C73FE44B60E25789419C07B0B234B3F586E092316FB2CBDA39C223224A3

Distinguished name	Certificate Serial Number	SHA256 fingerprint
CN = QuoVadis Europe Advanced CA G1 O = QuoVadis Trustlink Deutschland GmbH 2.5.4.97 = VATDE-DE296898382 C = DE	77f7735c6234bd8 a084975b376a37 1aecbe40c2a	3F6267382E09645DBCA74AFEE6CDF71EC432B56EE58078F8B8387D73B7BDB7EC
CN = QuoVadis RCA1G3 TLS CA O = QuoVadis Limited C = BM	72348f4fb5967e8 409e6b0cced6fa2 99b1ccd491	18BB70EFDA3F91438115C9EB4F333EB4EC68354571E6949195A0A91C9E6FBCD8
CN = DigiCert QV EV TLS ICA G1 O = DigiCert, Inc. C = US	65e9bcd53e791df 22dffeb5ecc2bc7a 5588d0883	6A7B2AA3414039A663D5D8BBAB8256A3979A84C332BF5E1EE8F6D0E0ADA84668
CN = QuoVadis Issuing CA G5 O = QuoVadis Limited C = BM	61be8292e7e8cb3 adf98e2ca7af3415 4298dd068	08204C52ADDAA97A6FDEF702F6CEB4B94E578F8FC1C301C9D5136AB381CFA7D9
CN = QuoVadis RCA3G3 TLS CA O = QuoVadis Limited C = BM	18dae051a89771 5eb0899ddcfb33b 1cf0810eec0	ECC0D17AC3263AC6A164DCDB08F82D07E93FCEA723F66B88B06EEBA9678DF2BB
CN = QuoVadis Enterprise Trust CA 1 G4 O = QuoVadis Trustlink B.V. C = NL	6404c54fd9495cd 38a5e72df0a705b ddd9b5a2a3	597623E05FD1B591711194EB190590F903A2B73F74CD5E8F787EC528033DAB7F
CN = QuoVadis Enterprise Trust CA 2 G3 O = QuoVadis Limited C = BM	5eeeb44a70e18e 63c9898f202cbac 164914edc05	174E1DE77C8D93C68ECD2BD2EA6E191B584DB850277A834AAC898B7C80A91C70
CN = QuoVadis Europe SSL CA G2 O = QuoVadis Trustlink B.V. C = NL	71aaaa62848411 4c591fd74b9fe9ffd e5b29fa7e	B1AAE1BCD555E8A3D1E3DDA8EC84E757C552655344CE3FEEBBAF98E895DBEDAC
CN = QuoVadis RCA3G1 TLS CA O = QuoVadis Limited C = BM	2b07c16415396d5 3cd05f7a542cca4 867e05c68d	3A66E648212E6321F94D9EABCC92C052E679D992C99AD4596A4E7B85ADCEE5DE
CN = QuoVadis Qualified Web ICA G3 O = QuoVadis Trustlink B.V. C = NL	2ca8cdc5b8ed750 780c72e3392c994 1c0ffb8826	3F225BDBCD788CE924870CAF92F814B7C6FF4EDABABAD93F1D3A9177252CF1D1

Distinguished name	Certificate Serial Number	SHA256 fingerprint
CN = BT Class 2 DigiCert PKI Platform CA O = British Telecommunications plc C = GB	72c987417647231 d21a5a1e13234c8 0f33fc35a5	843782303040BFB33576766E1700696DE0FC14887BE293D7265EB59ECE4ED9CC
CN = QuoVadis Time-Stamping Authority CA G1 O = QuoVadis Trustlink B.V. 2.5.4.97 = NTRNL-30237459 C = NL	4335c24f7215311 c1098838d7a0d55 84cdbf517f	D2BA0BFEC43FA7803860CDE6B3377421B1F563EC124B51D908415B0E937323E6
CN = QuoVadis RCA1G1 TLS CA O = QuoVadis Limited C = BM	331dda8face8d4b 873dc8216f76affd 0f5246e84	6BB964647B5EE6159A2A029EE5C7DCD1D9CF3B088451E0A68E90E6074C3F5CA3
CN = QuoVadis Global SSL ICA G2 O = QuoVadis Limited C = BM	48982de2a92cb33 9e1c8f933358275 d3e4f88255	A4879EC0F36CF84B6F2ED87AE57EE3B94A0785C6862238CD45481084D152EB18
CN = HydrantID Client ICA G2 O = HydrantID (Avalanche Cloud Corporation) C = US	330e34fc4ec99bc 46d28edf7eea2f2 e1787b5800	5286AE1C558A81537CD9870F749D96EFABC2D2BA393DF818DFE95EA7CE6450A7
CN = QuoVadis EV SSL ICA G3 O = QuoVadis Limited C = BM	3c71e6efc94621b aec6e693290da08 c61577421f	ABB3FF299AA1BAEFC1278818C424388AEF7B29651595C60194E78D943694680B
CN = DigiCert QV TLS ICA G1 O = DigiCert, Inc. C = US	71520e460e54aef 322e39fac16c0e9 7a51bd9572	93E33AF7DA3030530D090C9C55762CADE7EAE943F834349D1057A90EB67F306B
CN = QuoVadis Enterprise Trust CA 3 G3 O = QuoVadis Limited C = BM	0c2163a44924ffb7 fcd675acdcae7 208cca95a	DA5462526A0C2E9852A86186B025390158759CDCA6AE21F09F713CA6ACDD1F1
CN = QuoVadis Enterprise Trust CA 1 G3 O = QuoVadis Limited C = BM	0ad86fa335b93ef 48c8e3bf77d4c63 143643adb9	0531C86F785958939FDC539924D395D1EFA409364E6827D3AB9876311FFB27B0
CN = QuoVadis Belgium Issuing CA G4 2.5.4.97 = NTRBE-0537698318 O = DigiCert Europe Belgium B.V. C = BE	5bf39ec6453360e 0297f4cc5d7d888 28aca914c2	3516BDAB7F57115A7AEB2EBF9C521EF00F04AD891501979BE1EFBF4493409669

Distinguished name	Certificate Serial Number	SHA256 fingerprint
CN = QuoVadis Europe EV SSL CA G1 O = QuoVadis Trustlink B.V. C = NL	3a020322b6816c18b72acbb592bef74dd786a8b8	CB6666B32BFF2EFEDCC4187DF149A6D34A5D10B7165B9CFF2A67C0E311AEEED7
CN = VR IDENT SSL CA 2020 O = Fiducia & GAD IT AG C = DE	035fe137cd0551e4c1f1b00beba5ae53f952734	347D18DCCC2EFC51A920E7A7FBB07BFBDA35613681F82DCA5C4C72BB0C83C035
CN = QuoVadis EV SSL ICA G3 O = QuoVadis Limited C = BM	524fc1f16e34d1702b84a13fb042bbcc7c3c9032	F18442BEDF70B4D15211356C72B659332BED03FFD3BBA7AFAAABE6DE9D723002
CN = QuoVadis Enterprise Trust CA 2 G4 O = QuoVadis Trustlink B.V. C = NL	41d2651bf57daee594226cf55639c4c3285c24c	1E356823FE40C0EAAAC29F9ED5463B7B2DB1C088B63EBB05876A2E631C1087798
CN = itsme Sign Issuing CA G2 O = DigiCert Europe Belgium B.V. C = BE	4da802bbf234c3470746ac4e47fcde9aeb7cc3bf	0B7AF5EB38D90B83C893410EC6714601A4EF6EC5C32B9D1D9AD54FBD38E18AEA
CN = QuoVadis Enterprise Trust CA 3 G4 O = QuoVadis Trustlink B.V. C = NL	469b2e710c35141f2615c726aee92ee4b42b3420	31EFF7DF4DDEB71CBDFB08B5C7FC9604A93600251E8917D6960C32BF4C0B5A77
CN = QuoVadis Grid ICA G2 O = QuoVadis Limited C = BM	10b62f345a61eb6184a7b106c8057e9453e207d5	74CE8C1631EF9F38E7A4197DA3F5474DBC34F001F2967C25B5999562BCC8C9D4
CN = QuoVadis Code Signing CA G1 O = QuoVadis Limited C = BM	1ce6507ec1d9c0b16178feee058cae7a0b142858	DA0AFAF15CD300E34B520FB78A4FA68EB42C4601E939B903E0B1D71DF5965BFF
CN = QuoVadis Swiss Regulated CA G2x 2.5.4.97 = NTRCH-CHE-112.210.349 O = QuoVadis Trustlink Schweiz AG C = CH	51fd54ae8897ca2e71bdf28655a6d515afff15c3	941B8AEE4BCF1EFEB0475FB279FDDDC37FC5B20F64E842CD9DA0770B157E84D
CN = QuoVadis Enterprise Trust CA 2 G3 O = QuoVadis Limited C = BM	31a84f278bbe4a696e4cb2f415a2e4473bdcca38	B6F6559BBCE0A2CC91E507B5D7319E32487EDAE28A063BC73B6405E6C44665B6

Distinguished name	Certificate Serial Number	SHA256 fingerprint
CN = QuoVadis EU Issuing Certification Authority G4 O = QuoVadis Trustlink B.V. 2.5.4.97 = NTRNL-30237459 C = NL	127f8b32062628c 0ca3f8d44bef9f2fa 5db1440c	1D24222B5EEC71FE99BE9D700FA5FF72312DB3EB0FCB4A4F3BCC135DA36C1355
CN = BEKB - BCBE Issuing CA G2 OU = Issuing Certification Authority O = Berner Kantonalbank AG C = CH	289fbf1348498bc2 6512ff3abf8af52f2 a0b7502	B399EFE42C01A05BDC38978447A78E950467793FB11C1B6B426C419A0FC73911
CN = QuoVadis Issuing CA G4 O = QuoVadis Limited C = BM	69b2d1ccf02e20d cc95c62894f7f9e5 f5fc057bf	DA3BC81005FDBB853D681A7E942661AEB A23789211525EAF52221F28514C09CB
CN = QuoVadis EU Issuing Certification Authority G6 2.5.4.97 = NTRNL-30237459 O = QuoVadis Trustlink B.V. C = NL	32992e194ce22ea e94e96c8bb47537 9a11e2c4cf	19B74B7E41CA73465832838A14EB432C4826F1B15DEF42B90AAE9F8FAB8B79B3
CN = QuoVadis Global SSL ICA G3 O = QuoVadis Limited C = BM	2d2c802018b7907 c4d2d79df7fb1bd8 72727cc93	30242443F6895A94560E48E4DFF720536EAF5163CB42F5E877402ABDE2F8627C
CN = QuoVadis Swiss Advanced CA G4 O = QuoVadis Trustlink Schweiz AG C = CH	7bdcbb6fcd4d021 9c87d4879f4f4d71 5b6b834ae	085A74D4683D0FCCDE44677CFA579B732C9CE2DA6921AD3FE70F814EE7C0BF52
CN = HIN Health Info Net CA G2 O = Health Info Net AG 2.5.4.97 = NTRCH-CHE-103.489.218 C = CH	35bb9264f660c9b d09f8c0b34617dc 2b1341e05c	3645E0F05E195BE8ECD456E518C8C23C1BB259CD6CF4691F29C744AEF0C11FDD
CN = QuoVadis Swiss Advanced CA G3 O = QuoVadis Trustlink Schweiz AG 2.5.4.97 = NTRCH-CHE-112.210.349 C = CH	650b9209c6b93c0 a3f15408449e867 e01f279f9b	872F9DDB2EFCB0DC7BEC5462FCACEDEB66BEC1BB7446847670128A24878BED29
CN = QuoVadis Global SSL ICA G3 O = QuoVadis Limited C = BM	7ed6e79cc9ad81c 4c8193ef95d4428 770e341317	CAB9C12DBDE3AD5D2BC0201B54B18BE209CD5E146AAA085ABBDF241B096DFF47

Distinguished name	Certificate Serial Number	SHA256 fingerprint
CN = HydrantID EV SSL ICA G1 O = HydrantID (Avalanche Cloud Corporation) C = US	5bfdd1bb152d106 baa6d6d17e73c56 1f0dd9c8ca	80FDE428212AF0CA0AC531EEE6ED2DF3D3C2A4557DFCE857070FC947922E9B24
CN = QuoVadis Belgium Issuing CA G2 O = QuoVadis Trustlink BVBA 2.5.4.97 = NTRBE-0537698318 C = BE	1cdfd90b4f727198 60e301c76c368c6 1d91f1278	AA0E83B4AE0036679703D1603BC7E63A080464A033AE4B9F465838ADC85C61ED
CN = HydrantID SSL ICA G2 O = HydrantID (Avalanche Cloud Corporation) C = US	7517167783d043 7eb556c357946e4 563b8ebd3ac	9C6D08933201407FBF2B12540B67CC0E4C9666F132E1504762A717CBAE8F3FD6
CN = HydrantID SSL ICA G2 O = QuoVadis Limited C = BM	04E6881CFF6CD 65D5D554D18392 09CCEFAD7C78 D	01453F645CD91E233B7484827F23F8A573FD641029EA8A6BFE549EF4ED8B323D
CN = QuoVadis Global SSL ICA G3 O = QuoVadis Limited C = BM	653247814F5FA6 6BB854DAF053F 329265D726538	161EE5386329B28A27FF405736552A621D5A844A43811E3623E52EEFA0BA840A
CN = QuoVadis Time-Stamping Authority CA G2 O = QuoVadis Limited C = CH	692EDA51C0FE8 C3530B3D4675B BCE907D89A6C4 4	B9583D4E090E8A6B1B5FD3FD079ABAD2B1EC326E183A4B763473E2ACE04E43CD

Appendix B

	Disclosure	Description	Relevant WebTrust Criteria	Publicly Disclosed Link
1	QuoVadis: revocation services validity set to expected value plus one second	QuoVadis OCSP services were off by one second because of the inclusive requirement of the start time.	WebTrust Principles and Criteria for: Certification Authorities v2.2.1, SSL Baseline with Network Security v2.5, and Extended Validation SSL, v1.7.3.	<a href="#">1733000</a>
2	QuoVadis/PKloverheid: incorrect OCSP response for precertificate.	QuoVadis CMS requests a precertificate to be created by EJBCA but the CA unexpectedly rolls back the transaction, effectively removing the certificate from the CA database.	WebTrust Principles and Criteria for: Certification Authorities v2.2.1, SSL Baseline with Network Security v2.5, and Extended Validation SSL, v1.7.3.	<a href="#">1724276</a>
3	QuoVadis: hostnames not in preferred name syntax	Hostnames not in preferred name syntax.	WebTrust Principles and Criteria for: Certification Authorities v2.2.1, SSL Baseline with Network Security v2.5, and Extended Validation SSL, v1.7.3.	<a href="#">1738472</a>