



REPORT OF THE INDEPENDENT ACCOUNTANT

To the management of Viking Cloud:

Scope

We have examined Viking Cloud, Inc., a subsidiary of Sysnet North America, Inc., (“Viking Cloud”) management’s [assertion](#) that for its Certification Authority (“CA”) operations in Chicago, Illinois, in the United States of America, for its CAs as enumerated in [Attachment B](#), Viking Cloud has:

- disclosed its business, key lifecycle management, certificate lifecycle management, and CA environmental control practices in the applicable versions of its Viking Cloud Certificate Policy and Certification Practices Statement enumerated in [Attachment A](#)
- maintained effective controls to provide reasonable assurance that Viking Cloud provides its services in accordance with its Viking Cloud Certificate Policy and Certification Practices Statement
- maintained effective controls to provide reasonable assurance that:
 - the integrity of keys and certificates it manages is established and protected throughout their lifecycles;
 - the integrity of certificates it manages is established and protected throughout their lifecycles; and
 - subscriber information is properly authenticated, for the registration activities performed by Viking Cloud
- maintained effective controls to provide reasonable assurance that:
 - logical and physical access to CA systems and data is restricted to authorized individuals;
 - the continuity of key and certificate management operations is maintained; and
 - CA systems development, maintenance, and operations are properly authorized and performed to maintain CA systems integrity

throughout the period October 1, 2021 to September 30, 2022, based on the [WebTrust Principles and Criteria for Certification Authorities v2.2.2.](#)

Viking Cloud makes use of external registration authorities for subscriber registration activities of client authentication certificates as disclosed in Viking Cloud’s business practices. Our examination did not extend to the controls exercised by these external registration authorities.

Viking Cloud does not escrow its CA keys. Viking Cloud does not provide subscriber key generation services, subscriber key storage and recovery services, integrated circuit card lifecycle management services, certificate suspension services, or subordinate CA certificate and cross certificate lifecycle management services to third parties. Accordingly, our examination did not extend to controls that would address those criteria.



Certification Authority's Responsibilities

Viking Cloud's management is responsible for its assertion, including the fairness of its presentation, and the provision of its described services in accordance with the [WebTrust Principles and Criteria for Certification Authorities v2.2.2.](#)

Independent Accountant's Responsibilities

Our responsibility is to express an opinion on Viking Cloud management's assertion based on our examination. Our examination was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants. Those standards require that we plan and perform the 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. The nature, timing, and extent of the procedures selected depend on our judgment, including an assessment of the risks of material misstatement of management's assertion, 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.

We are required to be independent and to meet our other ethical responsibilities in accordance with relevant ethical requirements relating to the engagement.

The relative effectiveness and significance of controls at Viking Cloud 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. Our examination did not extend to controls at individual subscriber and relying party locations and we have not evaluated the effectiveness of such controls.

Inherent Limitations

There are inherent limitations in the effectiveness of any system of internal control, including the possibility of human error and the circumvention of controls. For example, because of their nature, controls may not prevent, or detect unauthorized access to systems and information, or failure to comply with internal and external policies or requirements. Also, the projection to the future of any conclusions based on our findings is subject to the risk that controls may become ineffective.

Independent Accountant's Opinion

In our opinion, management's assertion, as referred to above, is fairly stated, in all material respects.

This report does not include any representation as to the quality of Viking Cloud's services other than its CA operations in Chicago, Illinois, in the United States of America, nor the suitability of any of Viking Cloud's services for any customer's intended purpose.



Other Matters

Without modifying our opinion, we noted the following other matters during our procedures:

Matter Topic		Matter Description
1	Certificate Content	Viking Cloud disclosed in Mozilla Bugzilla #1776764 that two (2) certificates were issued without a DER encoded keyUsage extension.
2	OCSP Responses	Viking Cloud disclosed in Bugzilla #1765800 that an intermittent connection issue began to be reported in a log related to a database used to transfer, track, and provide statistics on certificate OCSP responses generated from the CA, catalogued, and transferred to the OCSP end point servers.
3	Certificate Content	Viking Cloud disclosed in Bugzilla #1720723 that it discovered a certificate that was issued with an invalid subject:localityName value and revoked it within the required timeline.

While the Viking Cloud assertion notes all issues disclosed on Bugzilla during the engagement period, we have only noted those instances relevant to the CAs enumerated in [Attachment B](#) and applicable to the [WebTrust Principles and Criteria for Certification Authorities v2.2.2.](#)

On October 17, 2021, the Viking Cloud group, formerly known as the Sysnet Global Solutions group, purchased the SecureTrust business, including Secure Compliance, Inc. (formerly named SecureTrust, Inc.), from Trustwave Holdings, Inc. On April 1, 2022, the Sysnet Global Solutions group announced the rebranding of the Secure Compliance, Inc. to Viking Cloud, Inc.

Use of the WebTrust Seal

Viking Cloud's use of the WebTrust for Certification Authorities Seal 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.

BDO USA, LLP

December 21, 2022



ATTACHMENT A - CERTIFICATION PRACTICE STATEMENT AND CERTIFICATE POLICY VERSIONS IN-SCOPE

Policy Name	Policy Version	Policy Date
<u>Viking Cloud Certificate Policy and Certification Practices Statement</u>	Version 7.2	September 28, 2022
<u>Viking Cloud Certificate Policy and Certification Practices Statement</u>	Version 7.1	June 15, 2022
<u>Viking Cloud Certificate Policy and Certification Practices Statement</u>	Version 7.0	March 29, 2022
<u>Viking Cloud Certificate Policy and Certification Practices Statement</u>	Version 6.8	November 20, 2021
<u>Viking Cloud Certificate Policy and Certification Practices Statement</u>	Version 6.7	September 22, 2021



ATTACHMENT B - IN-SCOPE CAs

Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN = XRamp Global Certification Authority O = XRamp Security Services Inc OU = www.xrampsecurity.com C = US	CECDDC905099D8DADFC5B1D209B737CBE2C18CFB2C10C0FF0BCF0D3286FC1AA2	11/1/2004	1/1/2035
CN = SecureTrust CA O = SecureTrust Corporation C = US	F1C1B50AE5A20DD8030EC9F6BC24823DD367B5255759B4E71B61FCE9F7375D73	11/7/2006	12/31/2029
CN = Secure Global CA O = SecureTrust Corporation C = US	4200F5043AC8590EBB527D209ED1503029FBCBD41CA1B506EC27F15ADE7DAC69	11/7/2006	12/31/2029
CN = Trustwave Global Certification Authority O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	97552015F5DDFC3C8788C006944555408894450084F100867086BC1A2BB58DC8	8/23/2017	8/23/2042
CN = Trustwave Global ECC P256 Certification Authority O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	945BBC825EA554F489D1FD51A73DDF2EA624AC7019A05205225C22A78CCFA8B4	8/23/2017	8/23/2042
CN = Trustwave Global ECC P384 Certification Authority O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	55903859C8C0C3EBB8759ECE4E2557225FF5758BBBD38EBD48276601E1BD58097	8/23/2017	8/23/2042



SSL Issuing CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
E = ca@trustwave.com CN = Trustwave Extended Validation SHA256 CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	EEA36C0FFA3F54FFDB0CF14B3BD34A53EC7B775F54053DD8B07DFD2F8BEC9083	10/13/2014	10/10/2024
E = ca@trustwave.com CN = Trustwave Extended Validation SHA256 CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	49C58270F70F1BE0B7C19D1BC2C2EBC41E2FDE0D4885D4FA65EF0370ACEC7A00	9/1/2016	9/29/2024
E = ca@trustwave.com CN = Trustwave Secure Global Extended Validation CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	45B2B08E1B58948A028BE13A67C0E20D4B2466AE2B6EC6250EBB10FD6B7F8239	8/12/2015	8/9/2025
E = ca@trustwave.com CN = Trustwave XRamp Global Extended Validation CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	1D0CD7EF3C19265508E20E58B3538964F4A11ADEC8A71D8AB8A8AFF15683C6AE	8/12/2015	8/9/2025
C = US S = Illinois L = Chicago O = SecureTrust CN = SecureTrust Extended Validation CA, Level 1	DD23355C61D59970423004729795CAEF77AFDB39767A795740D4E04CB6158A99	1/29/2019	1/29/2029



SSL Issuing CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global Extended Validation CA, Level 1	18626A3B7211128D563469C654557D13C9366D7FCEC8B94DB4F0AA7E05944041	2/6/2018	2/24/2028
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global ECDSA P-256 Extended Validation CA, Level 1	275BF0046E0270178B13B67E4DB150A10197CB71F9A061FAD36B3D76639FE186	2/6/2018	2/24/2028
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global ECDSA P-384 Extended Validation CA, Level 1	29F8E104DF38E612BF4F505365B5D0B0B20DD4E89C908306484EB8374C1E66D8	2/6/2018	2/24/2028
E = ca@trustwave.com CN = Trustwave Organization Validation SHA256 CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	FF1E0D233196B7EC20BEDFC65988E0AE1985EC6AC332A79ADFFE71B86BC0208A	10/1/2014	9/28/2024
E = ca@trustwave.com CN = Trustwave Organization Validation SHA256 CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	58EA0688B7909AAA8EAAA2FFF36F3BBE8F4A2AD03BD70243B3903469DB4890F7	9/1/2016	9/29/2024



SSL Issuing CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
C = US S = Illinois L = Chicago O = SecureTrust CN = SecureTrust Organization Validation CA, Level 1	11D9330D1A2398508DD50D3094EB28B1B44900D9928F8C22B25EF7A781BDB403	1/29/2019	1/29/2029
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global Organization Validation CA, Level 1	2E63DC1BECF427F9902B49DE6330FD3E8EEBF88B14E653B3BA2E37D4E4880965	2/6/2018	2/24/2028
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global ECDSA P-256 Organization Validation CA, Level 1	18ABD6E9CA907BB36754D0C046EBB50DD9B95D527824D9581A31B750FCFDBAEF	2/6/2018	2/24/2028
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global ECDSA P-384 Organization Validation CA, Level 1	87D42169B2693551CA205CCF17F06F6E6651F7218CD6D26607BF5BA4DD2F26F2	2/6/2018	2/24/2028
E = ca@trustwave.com CN = Trustwave Domain Validation SHA256 CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	859968F9278B4DC82EE30FD118A5D297D284B687CB64CF9755AB8A9D38F2B70F	10/1/2014	9/28/2024



SSL Issuing CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
E = ca@trustwave.com CN = Trustwave Domain Validation SHA256 CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	74F56E1AB339D83E80F2F6E264F894775B426C89B44703DF4FA8A3231163A2BD	9/1/2016	9/29/2024
C = US S = Illinois L = Chicago O = SecureTrust CN = SecureTrust Domain Validation CA, Level 1	5E60965804461930AC27B6DBE3445679EAE4131C22AFB88AF7ACF6A1917B5ABA	1/29/2019	1/29/2029
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global Domain Validation CA, Level 1	6782C6E9ADBF9216E268306D46333FBC674BDEDF86B67BE777079E2C0E36888E	2/6/2018	2/24/2028
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global ECDSA P-256 Domain Validation CA, Level 1	F62E35AAD345FB253863CFC0E65823ACD3E7F0846D19B8326D709C7919A22D7E	2/6/2018	2/24/2028
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global ECDSA P-384 Domain Validation CA, Level 1	C63DF9618FBFAF48662BA12ABE87B212CF777C27A446A0FA555D7A9D191148ED7	2/6/2018	2/24/2028



SSL Issuing CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
C = US O = Viking Cloud, Inc. CN = Viking Cloud Extended Validation CA, Level 1	10B608E53E0F3F44432A32B906CD753001736AC8BFE90ED3A0847DF285E2D977	6/9/2022	12/15/2029
C = US O = Viking Cloud, Inc. CN = Viking Cloud Organization Validation CA, Level 1	0EEF05BDA7842EA85D1D9812495EFC561283BAA90D1431C579DD61F7ED9269A1	6/9/2022	12/15/2029
C = US O = Viking Cloud, Inc. CN = Viking Cloud Domain Validation CA, Level 1	386AD965DA24812016ED3F011F2112DFD591693DABEB3D0E61B1145F5F9D1217	6/9/2022	12/15/2029



S/MIME CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
E = ca@trustwave.com CN = Trustwave S/MIME SHA256 CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	5C4BC597291AB9C7023FB6445FD60381A65C60DDD404F124E5FA143FE98B05F3	10/1/2014	9/28/2024
C = US O = SecureTrust CN = SecureTrust TWG Secure Email CA, Level 2	ACCCAAF77372FFD2BD7BB21861B224EE1DAE8FE640D03A8FDE7518EC9B32508B	10/8/2020	10/8/2030
C = US O = SecureTrust CN = SecureTrust TWG ECDSA P-256 Secure Email CA, Level 2	B36BE2E3F72EC3FA03B2273EFF994F4F6F4F09B2DD7A28AF951BD38EC103F088	10/8/2020	10/8/2030
C = US O = SecureTrust CN = SecureTrust TWG ECDSA P-384 Secure Email CA, Level 2	136A05614FDE8F94D8C1209B853F8F7FC487D233A280BD9902335DDB563EFDC5	10/8/2020	10/8/2030
C = US O = SecureTrust CN = SecureTrust Secure Email CA, Level 3	C9B767E33B955785458F569746D489B9A51C72B8160212B5DD5C9978125ED492	10/8/2020	10/8/2030
C = US O = Viking Cloud, Inc. CN = Viking Cloud Secure Email CA, Level 1	84071B259D851367E653E0E477A9ECDCA3F10453E1FE57A1EA5728F7934824C9	6/9/2022	6/9/2032



Client Authentication CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
E = ca@trustwave.com CN = Trustwave Client Authentication SHA256 CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	7FE20CEEE2B6972D862542060AE9A88FEA5E43A977A7FB25C95246F7F76C0668	10/1/2014	9/28/2024
C = US S = Illinois L = Chicago O = SecureTrust CN = SecureTrust Client Authentication CA, Level 1	2F50860F968053A7DBA17851341759B0D5C0412F857A2CD19F3731DD3BED1B6B	1/29/2019	1/29/2029
C = US O = SecureTrust CN = SecureTrust TWG Client CA, Level 3	5B78E6B05F0739429C50CDDEF3DBDC8813A456AB9619E82CF591392A9D0D3B26	10/8/2020	10/8/2030
C = US O = SecureTrust CN = SecureTrust TWG ECDSA P-256 Client CA, Level 3	E92BE3F7D2A0FF65927B92EFB65B31BDDADB070999F8D6AA81273D9F90695C7B	10/8/2020	10/8/2030
C = US O = SecureTrust CN = SecureTrust TWG ECDSA P-384 Client CA, Level 3	96CC051C0841630A05FD7F274F6EFB723F857B8B8CFFC0676765C1013100D22D	10/8/2020	10/8/2030
C = US O = Viking Cloud, Inc. CN = Viking Cloud Client Authentication CA, Level 1	115B4CCB4B7A8D2733085363311A3EE5A2603A4198483814E727181F0D45BB89	6/9/2022	12/15/2029



Code Signing CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
E = ca@trustwave.com CN = Trustwave Code Signing SHA256 CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	F420949BB55A462D9B927449E49DA23F683AB4B6166E05815808F5D9FD36646B	10/1/2014	9/28/2024
E = ca@trustwave.com CN = Trustwave Code Signing SHA256 CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	53A8129F71A9827D03704670720C375061821155C076E86A490D6EB871E03AF0	9/1/2016	9/29/2024
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global Code Signing CA, Level 1	4D10A086866731C0E16174192114C6076C7995DD5493006DD2054EFBD169AE2B	2/6/2018	8/21/2042
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global ECDSA P- 256 Code Signing CA, Level 1	730E02CD3AFD489FDB9D708F674B45FA8CFD73AB926B94855B2C0376F9A528D9	2/6/2018	8/21/2042
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global ECDSA P- 384 Code Signing CA, Level 1	7F2A890E8D9AFDB9C0F08AF1CB8DDA18C5802C5BEA50E0B18071D3CF973A46BD	2/6/2018	8/21/2042



Code Signing CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
C = US S = Illinois L = Chicago O = SecureTrust CN = SecureTrust Code Signing CA, Level 1	5E4FF34628DABED6859BACF2E128A807A08F49B0C259D9BE2E33FEE066AC7AF7	1/29/2019	1/29/2029
CN = Viking Cloud TWG Code Signing CA, Level 1 O = Viking Cloud, Inc. C = US	E7EADE07201F519CC43A51D3F33D4EC3112D5A72D83EFB4104CBC1B306DAB762	8/10/2022	8/10/2032



Timestamping CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN = Trustwave Timestamping CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	EF5AE8BBF214337779B8A30730962638BB3AFE100C615A49730F709A2518861B	1/25/2017	12/25/2034
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global Timestamping CA, Level 1	643B81C90B3505BFAFF80EAAAC9EE28C9F406362A8F56DD26ECFA29335958C856	2/6/2018	8/21/2042
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global ECDSA P-256 Timestamping CA, Level 1	7FC29B856B23EEFC3A5E68775E0B37DC320627FD5C19368BB68397EE219A667A	2/6/2018	8/21/2042
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global ECDSA P-384 Timestamping CA, Level 1	F75E65420AD6C018D915BBBA40A77122B30ACFD417DA3A885E4C4CD9E065A415	2/6/2018	8/21/2042
C = US S = Illinois L = Chicago O = SecureTrust CN = SecureTrust Timestamping CA, Level 1	090DF1220A60E8E865F8607B9A24BC3BE00D933D438FB686A3173DEFC5BFBB40	1/29/2019	12/31/2034
CN = Viking Cloud TWG Timestamping CA, Level 1 O = Viking Cloud, Inc. C = US	FA623A8BA0D6C69590593A62A67484EACCD1D3A7B19DCA78139DC3E30AC0B68A	8/10/2022	8/10/2037



VIKING CLOUD MANAGEMENT'S ASSERTION

Viking Cloud, Inc. ("Viking Cloud") operates the Certification Authority ("CA") services for its CAs enumerated in [Attachment B](#), and provides the following CA services:

- Subscriber registration
- Certificate renewal
- Certificate rekey
- Certificate issuance
- Certificate distribution
- Certificate revocation
- Certificate validation

The management of Viking Cloud is responsible for establishing and maintaining effective controls over its CA operations, including its CA business practices disclosure on its [repository](#), CA business practices management, CA environmental controls, CA key lifecycle management controls, and certificate lifecycle management controls. These controls contain monitoring mechanisms, and actions are taken to correct deficiencies identified.

Viking Cloud makes use of external registration authorities for subscriber registration activities as disclosed in Viking Cloud's business practices. Our assertion did not extend to the controls exercised by these external registration authorities.

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

Viking Cloud management has assessed its disclosures of its certificate practices and controls over its CA services. Based on that assessment, in Viking Cloud management's opinion, in providing its CA services in Chicago, Illinois, in the United States of America, Viking Cloud has:

- disclosed its business, key lifecycle management, certificate lifecycle management, and CA environment control practices in its applicable versions of its Viking Cloud Certificate Policy and Certification Practices Statement enumerated in [Attachment A](#)
- maintained effective controls to provide reasonable assurance that Viking Cloud provides its services in accordance with its Viking Cloud Certificate Policy and Certification Practices Statement
- maintained effective controls to provide reasonable assurance that:
 - the integrity of keys and certificates it manages is established and protected throughout their lifecycles;
 - the integrity of certificates it manages is established and protected throughout their lifecycles; and

- subscriber information is properly authenticated, for the registration activities performed by Viking Cloud
- maintained effective controls to provide reasonable assurance that:
 - logical and physical access to CA systems and data is restricted to authorized individuals;
 - the continuity of key and certificate management operations is maintained; and
 - CA systems development, maintenance, and operations are properly authorized and performed to maintain CA systems integrity

throughout the period October 1, 2021 to September 30, 2022, based on the [WebTrust Principles and Criteria for Certification Authorities v2.2.2](#), including the following:

CA Business Practices Disclosure

- Certification Practice Statement (CPS)
- Certificate Policy (CP)

CA Business Practices Management

- Certification Practice Statement Management
- Certificate Policy Management

CA Environmental Controls

- Security Management
- Asset Classification and Management
- Personnel Security
- Physical and Environmental Security
- Operations Management
- System Access Management
- System Development, Maintenance, and Change Management
- Disaster Recovery, Backups, and Business Continuity Management
- Monitoring and Compliance
- Audit Logging

CA Key Lifecycle Management Controls

- CA Key Generation
- CA Key Storage, Backup, and Recovery
- CA Public Key Distribution
- CA Key Usage
- CA Key Archival
- CA Key Destruction
- CA Key Compromise
- CA Cryptographic Hardware Lifecycle Management
- CA Key Transportation

- CA Key Migration

Subscriber Key Lifecycle Management Controls

- Requirements for Subscriber Key Management

Certificate Lifecycle Management Controls

- Subscriber Registration
- Certificate Renewal
- Certificate Rekey
- Certificate Issuance
- Certificate Distribution
- Certificate Revocation
- Certificate Validation

Viking Cloud does not escrow its CA keys. Viking Cloud does not provide subscriber key generation services, subscriber key storage and recovery services, integrated circuit card lifecycle management services, certificate suspension services, or subordinate CA certificate and cross certificate lifecycle management services to third parties. Accordingly, our assertion does not extend to controls that would address those criteria.

Viking Cloud has disclosed the following matters publicly on Mozilla Bugzilla's platform. These matters were included below due to being open during the period October 1, 2021 through the date of this report.

Bug ID	Summary	Opened	Closed	Resolution
1776764	SecureTrust: 2 certificates with non-DER encoded keyUsage extension	June 27, 2022	Open	Open
1765800	SecureTrust: Incorrect OCSP response	April 21, 2022	Closed	10/14/2022
1720723	SecureTrust: Invalid localityName	September 28, 2021	Closed	10/5/2022

On October 17, 2021, the Viking Cloud group, formerly known as the Sysnet Global Solutions group, purchased the SecureTrust business, including Secure Compliance, Inc. (formerly named SecureTrust, Inc.), from Trustwave Holdings, Inc. On April 1, 2022, the Sysnet Global Solutions group announced the rebranding of the Secure Compliance, Inc. to Viking Cloud, Inc.

DocuSigned by:

Tom Wallace

12/21/2022

815D756F156C44E...
Tom Wallace

Senior VP of Delivery and Operations, Viking Cloud
For and on behalf of Viking Cloud, Inc.

**ATTACHMENT A - CERTIFICATION PRACTICE STATEMENT AND CERTIFICATE
POLICY VERSIONS IN-SCOPE**

Policy Name	Policy Version	Policy Date
Viking Cloud Certificate Policy and Certification Practices Statement	Version 7.2	September 28, 2022
Viking Cloud Certificate Policy and Certification Practices Statement	Version 7.1	June 15, 2022
Viking Cloud Certificate Policy and Certification Practices Statement	Version 7.0	March 29, 2022
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Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN = XRamp Global Certification Authority O = XRamp Security Services Inc OU = www.xrampsecurity.com C = US	CECDDC905099D8DADFC5B1D209B737CBE2C18CFB2C10C0FF0BCF0D3286FC1AA2	11/1/2004	1/1/2035
CN = SecureTrust CA O = SecureTrust Corporation C = US	F1C1B50AE5A20DD8030EC9F6BC24823DD367B5255759B4E71B61FCE9F7375D73	11/7/2006	12/31/2029
CN = Secure Global CA O = SecureTrust Corporation C = US	4200F5043AC8590EBB527D209ED1503029FBCBD41CA1B506EC27F15ADE7DAC69	11/7/2006	12/31/2029
CN = Trustwave Global Certification Authority O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	97552015F5DDFC3C8788C006944555408894450084F100867086BC1A2BB58DC8	8/23/2017	8/23/2042
CN = Trustwave Global ECC P256 Certification Authority O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	945BBC825EA554F489D1FD51A73DDF2EA624AC7019A05205225C22A78CCFA8B4	8/23/2017	8/23/2042
CN = Trustwave Global ECC P384 Certification Authority O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	55903859C8C0C3EBB8759ECE4E2557225FF5758BBD38EBD48276601E1BD58097	8/23/2017	8/23/2042

SSL Issuing CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
E = ca@trustwave.com CN = Trustwave Extended Validation SHA256 CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	EEA36C0FFA3F54FFDB0CF14B3BD34A53EC7B775F54053DD8B07DFD2F8BEC9083	10/13/2014	10/10/2024
E = ca@trustwave.com CN = Trustwave Extended Validation SHA256 CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	49C58270F70F1BE0B7C19D1BC2C2EBC41E2FDE0D4885D4FA65EF0370ACEC7A00	9/1/2016	9/29/2024
E = ca@trustwave.com CN = Trustwave Secure Global Extended Validation CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	45B2B08E1B58948A028BE13A67C0E20D4B2466AE2B6EC6250EBB10FD6B7F8239	8/12/2015	8/9/2025
E = ca@trustwave.com CN = Trustwave XRamp Global Extended Validation CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	1D0CD7EF3C19265508E20E58B3538964F4A11ADEC8A71D8AB8A8AFF15683C6AE	8/12/2015	8/9/2025
C = US S = Illinois L = Chicago O = SecureTrust CN = SecureTrust Extended Validation CA, Level 1	DD23355C61D59970423004729795CAEF77AFDB39767A795740D4E04CB6158A99	1/29/2019	1/29/2029

SSL Issuing CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global Extended Validation CA, Level 1	18626A3B7211128D563469C654557D13C9366D7FCEC8B94DB4F0AA7E05944041	2/6/2018	2/24/2028
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global ECDSA P-256 Extended Validation CA, Level 1	275BF0046E0270178B13B67E4DB150A10197CB71F9A061FAD36B3D76639FE186	2/6/2018	2/24/2028
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global ECDSA P-384 Extended Validation CA, Level 1	29F8E104DF38E612BF4F505365B5D0B0B20DD4E89C908306484EB8374C1E66D8	2/6/2018	2/24/2028
E = ca@trustwave.com CN = Trustwave Organization Validation SHA256 CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	FF1E0D233196B7EC20BEDFC65988E0AE1985EC6AC332A79ADFFE71B86BC0208A	10/1/2014	9/28/2024
E = ca@trustwave.com CN = Trustwave Organization Validation SHA256 CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	58EA0688B7909AAA8EAAA2FFF36F3BBE8F4A2AD03BD70243B3903469DB4890F7	9/1/2016	9/29/2024

SSL Issuing CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
C = US S = Illinois L = Chicago O = SecureTrust CN = SecureTrust Organization Validation CA, Level 1	11D9330D1A2398508DD50D3094EB28B1B44900D9928F8C22B25EF7A781BDB403	1/29/2019	1/29/2029
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global Organization Validation CA, Level 1	2E63DC1BECF427F9902B49DE6330FD3E8EEBF88B14E653B3BA2E37D4E4880965	2/6/2018	2/24/2028
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global ECDSA P-256 Organization Validation CA, Level 1	18ABD6E9CA907BB36754D0C046EBB50DD9B95D527824D9581A31B750FCFDBAEF	2/6/2018	2/24/2028
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global ECDSA P-384 Organization Validation CA, Level 1	87D42169B2693551CA205CCF17F06F6E6651F7218CD6D26607BF5BA4DD2F26F2	2/6/2018	2/24/2028
E = ca@trustwave.com CN = Trustwave Domain Validation SHA256 CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	859968F9278B4DC82EE30FD118A5D297D284B687CB64CF9755AB8A9D38F2B70F	10/1/2014	9/28/2024

SSL Issuing CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
E = ca@trustwave.com CN = Trustwave Domain Validation SHA256 CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	74F56E1AB339D83E80F2F6E264F894775B426C89B44703DF4FA8A3231163A2BD	9/1/2016	9/29/2024
C = US S = Illinois L = Chicago O = SecureTrust CN = SecureTrust Domain Validation CA, Level 1	5E60965804461930AC27B6DBE3445679EAE4131C22AFB88AF7ACF6A1917B5ABA	1/29/2019	1/29/2029
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global Domain Validation CA, Level 1	6782C6E9ADBF9216E268306D46333FBC674BDEDF86B67BE777079E2C0E36888E	2/6/2018	2/24/2028
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global ECDSA P- 256 Domain Validation CA, Level 1	F62E35AAD345FB253863CFC0E65823ACD3E7F0846D19B8326D709C7919A22D7E	2/6/2018	2/24/2028
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global ECDSA P- 384 Domain Validation CA, Level 1	C63DF9618FBAF48662BA12ABE87B212CF777C27A446A0FA555D7A9D191148ED7	2/6/2018	2/24/2028

SSL Issuing CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
C = US O = Viking Cloud, Inc. CN = Viking Cloud Extended Validation CA, Level 1	10B608E53E0F3F44432A32B906CD753001736AC8BFE90ED3A0847DF285E2D977	6/9/2022	12/15/2029
C = US O = Viking Cloud, Inc. CN = Viking Cloud Organization Validation CA, Level 1	0EEF05BDA7842EA85D1D9812495EFC561283BAA90D1431C579DD61F7ED9269A1	6/9/2022	12/15/2029
C = US O = Viking Cloud, Inc. CN = Viking Cloud Domain Validation CA, Level 1	386AD965DA24812016ED3F011F2112DFD591693DABEB3D0E61B1145F5F9D1217	6/9/2022	12/15/2029

S/MIME CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
E = ca@trustwave.com CN = Trustwave S/MIME SHA256 CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	5C4BC597291AB9C7023FB6445FD60381A65C60DDD404F124E5FA143FE98B05F3	10/1/2014	9/28/2024
C = US O = SecureTrust CN = SecureTrust TWG Secure Email CA, Level 2	ACCCAAF77372FFD2BD7BB21861B224EE1DAE8FE640D03A8FDE7518EC9B32508B	10/8/2020	10/8/2030
C = US O = SecureTrust CN = SecureTrust TWG ECDSA P- 256 Secure Email CA, Level 2	B36BE2E3F72EC3FA03B2273EFF994F4F6F4F09B2DD7A28AF951BD38EC103F088	10/8/2020	10/8/2030
C = US O = SecureTrust CN = SecureTrust TWG ECDSA P- 384 Secure Email CA, Level 2	136A05614FDE8F94D8C1209B853F8F7FC487D233A280BD9902335DDB563EFDC5	10/8/2020	10/8/2030
C = US O = SecureTrust CN = SecureTrust Secure Email CA, Level 3	C9B767E33B955785458F569746D489B9A51C72B8160212B5DD5C9978125ED492	10/8/2020	10/8/2030
C = US O = Viking Cloud, Inc. CN = Viking Cloud Secure Email CA, Level 1	84071B259D851367E653E0E477A9ECDCA3F10453E1FE57A1EA5728F7934824C9	6/9/2022	6/9/2032

Client Authentication CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
E = ca@trustwave.com CN = Trustwave Client Authentication SHA256 CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	7FE20CEEE2B6972D862542060AE9A8FEA5E43A977A7FB25C95246F7F76C0668	10/1/2014	9/28/2024
C = US S = Illinois L = Chicago O = SecureTrust CN = SecureTrust Client Authentication CA, Level 1	2F50860F968053A7DBA17851341759B0D5C0412F857A2CD19F3731DD3BED1B6B	1/29/2019	1/29/2029
C = US O = SecureTrust CN = SecureTrust TWG Client CA, Level 3	5B78E6B05F0739429C50CDDEF3DBDC8813A456AB9619E82CF591392A9D0D3B26	10/8/2020	10/8/2030
C = US O = SecureTrust CN = SecureTrust TWG ECDSA P-256 Client CA, Level 3	E92BE3F7D2A0FF65927B92EFB65B31BDDADB070999F8D6AA81273D9F90695C7B	10/8/2020	10/8/2030
C = US O = SecureTrust CN = SecureTrust TWG ECDSA P-384 Client CA, Level 3	96CC051C0841630A05FD7F274F6EFB723F857B8B8CFFC0676765C1013100D22D	10/8/2020	10/8/2030
C = US O = Viking Cloud, Inc. CN = Viking Cloud Client Authentication CA, Level 1	115B4CCB4B7A8D2733085363311A3EE5A2603A4198483814E727181F0D45BB89	6/9/2022	12/15/2029

Code Signing CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
E = ca@trustwave.com CN = Trustwave Code Signing SHA256 CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	F420949BB55A462D9B927449E49DA23F683AB4B6166E05815808F5D9FD36646B	10/1/2014	9/28/2024
E = ca@trustwave.com CN = Trustwave Code Signing SHA256 CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	53A8129F71A9827D03704670720C375061821155C076E86A490D6EB871E03AF0	9/1/2016	9/29/2024
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global Code Signing CA, Level 1	4D10A086866731C0E16174192114C6076C7995DD5493006DD2054EFBD169AE2B	2/6/2018	8/21/2042
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global ECDSA P- 256 Code Signing CA, Level 1	730E02CD3AFD489FDB9D708F674B45FA8CFD73AB926B94855B2C0376F9A528D9	2/6/2018	8/21/2042
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global ECDSA P- 384 Code Signing CA, Level 1	7F2A890E8D9AFDB9C0F08AF1CB8DDA18C5802C5BEA50E0B18071D3CF973A46BD	2/6/2018	8/21/2042
C = US S = Illinois L = Chicago O = SecureTrust CN = SecureTrust Code Signing CA, Level 1	5E4FF34628DABED6859BACF2E128A807A08F49B0C259D9BE2E33FEE066AC7AF7	1/29/2019	1/29/2029

Code Signing CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN = Viking Cloud TWG Code Signing CA, Level 1 O = Viking Cloud, Inc. C = US	E7EADE07201F519CC43A51D3F33D4EC3112D5A72D83EFB4104CBC1B306DAB762	8/10/2022	8/10/2032

Timestamping CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN = Trustwave Timestamping CA, Level 1 O = Trustwave Holdings, Inc. L = Chicago S = Illinois C = US	EF5AE8BBF214337779B8A30730962638BB3AFE100C615A49730F709A2518861B	1/25/2017	12/25/2034
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global Timestamping CA, Level 1	643B81C90B3505BFAFF80EAAAC9EE28C9F406362A8F56DD26ECFA29335958C856	2/6/2018	8/21/2042
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global ECDSA P-256 Timestamping CA, Level 1	7FC29B856B23EEFC3A5E68775E0B37DC320627FD5C19368BB68397EE219A667A	2/6/2018	8/21/2042
C = US S = Illinois L = Chicago O = Trustwave Holdings, Inc. CN = Trustwave Global ECDSA P-384 Timestamping CA, Level 1	F75E65420AD6C018D915BBBA40A77122B30ACFD417DA3A885E4C4CD9E065A415	2/6/2018	8/21/2042
C = US S = Illinois L = Chicago O = SecureTrust CN = SecureTrust Timestamping CA, Level 1	090DF1220A60E8E865F8607B9A24BC3BE00D933D438FB686A3173DEFC5BFBB40	1/29/2019	12/31/2034
CN = Viking Cloud TWG Timestamping CA, Level 1 O = Viking Cloud, Inc. C = US	FA623A8BA0D6C69590593A62A67484EACCD1D3A7B19DCA78139DC3E30AC0B68A	8/10/2022	8/10/2037