

Report of the Independent Accountant

To the Management of Korea Electronic Certification Authority, Inc. ("CrossCert"):

We have examined the assertions by the management of CrossCert, a subordinate Certification Authority of DigiCert, Inc. ("DigiCert"), that for its Symantec Certification Authority (CA) operations at Seoul, Republic of Korea; Suwon, Republic of Korea, throughout the period July 1, 2018 to June 30, 2019 for its CAs enumerated in Appendix A, CrossCert has:

- disclosed its business, key lifecycle management, certificate lifecycle management, and CA environmental control practices in the applicable versions of its CrossCert Certification Practices Statement and DigiCert Certificate Policy for Symantec Trust Network (STN) enumerated in Appendix B
- maintained effective controls to provide reasonable assurance that:
 - CrossCert's Certification Practice Statement is consistent with its Certificate Policy
 - CrossCert provides its services in accordance with its Certificate Policy and Certification Practice 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 subscriber keys and certificates it manages is established and protected throughout their lifecycles;
 - subscriber information is properly authenticated (for the registration activities performed by CrossCert); 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 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

based on the WebTrust Principles and Criteria for Certification Authorities, Version 2.2.

CrossCert's management is responsible for its assertion. Our responsibility is to express an opinion on management's assertion based on our examination.

CrossCert does not escrow its CA keys, does not provide subscriber key generation services, does not provide subscriber key storage and recovery services, does not provide Integrated Circuit Card Lifecycle Management services to subscribers, and does not provide certificate suspension services. Accordingly, our examination did not extend to controls that would address those criteria.



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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, which includes:

- (1) obtaining an understanding of CrossCert's key and certificate lifecycle management business practices, policies, processes and controls, and its suitability of design and implementation of 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 lifecycle 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 lifecycle 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 our examination provides a reasonable basis for our opinion.

The relative effectiveness and significance of specific controls at CrossCert 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.

Because of the nature and inherent limitations of controls, CrossCert's ability to meet the aforementioned criteria may be affected. For example, 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. Also, the projection of any conclusions based on our findings to future periods is subject to the risk that changes may alter the validity of such conclusions.

In our opinion, throughout the period July 1, 2018 to June 30, 2019, CrossCert management's assertion, as referred above, is fairly stated, in all material respects, based on the WebTrust Principles and Criteria for Certification Authorities, Version 2.2.

This report does not include any representation as to the quality of CrossCert's services other than its Symantec CA operations at Seoul, Republic of Korea; Suwon, Republic of Korea, nor the suitability of any of CrossCert's services for any customer's intended purpose.

Crosscert'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.

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September 20, 2019



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Appendix A – List of CAs In-Scope

CA #	Cert #	Subject	Issuer	Serial Number	Key Algorithm	Key Sizes	Digest Algorithm	Not Before	Not After	SKI	SHA 1 Fingerprint	SHA 256 Fingerprint
1	1	CN = CrossCert Class 1 Consumer Individual Subscriber CA - G3 OU = Symantec Trust Network O = "KECA, Inc." C = KR	CN = VeriSign Class 1 Public Primary Certification Authority - G3 OU = "(c) 1999 VeriSign, Inc. - For authorized use only" OU = VeriSign Trust Network O = "VeriSign, Inc." C = US	02:8E:81:F2 :BA:E2:5D:4 2:5B:02:54: B5:01:90:8F :28	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Tuesday, June 18, 2019, 12:00:00 AM GMT	Friday, March 31, 2023, 11:59:59 PM GMT	90:72:8b: 7a:46:ca: c9:cb:d1: 95:7d:75: 95:f2:cc:8 9:eb:cf:03 :21	A3:AE:67:F3:3 B:9A:8A:B5:5 E:8E:EF:C7:A 5:10:6C:1C:A 4:AC:E2:6D	D4:F4:35:7C:1 0:3B:03:43:82: C5:A0:DB:F4: 54:A9:C7:27:9 9:A2:8C:AB:3 2:CF:CC:28:F 8:0A:A5:C7:B 1:42:A4
1	2	CN = CrossCert Class 1 Consumer Individual Subscriber CA - G3 OU = Symantec Trust Network O = "KECA, Inc." C = KR	CN = VeriSign Class 1 Public Primary Certification Authority - G3 OU = "(c) 1999 VeriSign, Inc. - For authorized use only" OU = VeriSign Trust Network O = "VeriSign, Inc." C = US	28:30:F6:38 :9E:00:2D:8 4:8E:87:1E: 7D:87:90:85 :2D	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, June 4, 2015, 12:00:00 AM GMT	Wednesday, June 3, 2020, 11:59:59 PM GMT	90:72:8b: 7a:46:ca: c9:cb:d1: 95:7d:75: 95:f2:cc:8 9:eb:cf:03 :21	4F:40:63:64:8 E:2F:41:75:D3 :F2:8A:0A:43: F0:5B:D6:3F: E3:14:FA	2D:4C:89:0F:3 D:B5:17:A2:44 :44:A7:9E:27: BC:F2:05:94:1 9:04:D5:AA:51 :0F:87:83:BC: 6D:B1:AD:36: 83:48
1	3	CN = CrossCert Class 1 Consumer Individual Subscriber CA - G3 OU = Symantec Trust Network O = "KECA, Inc." C = KR (Revoked on May 8 th , 2019)	CN = VeriSign Class 1 Public Primary Certification Authority - G3 OU = "(c) 1999 VeriSign, Inc. - For authorized use only" OU = VeriSign Trust Network O = "VeriSign, Inc." C = US	00:FC:78:8 D:52:D4:44: 16:78:24:3B :98:82:CB:1 5:B4	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, June 4, 2015, 12:00:00 AM GMT	Wednesday, June 3, 2020, 11:59:59 PM GMT	90:72:8b: 7a:46:ca: c9:cb:d1: 95:7d:75: 95:f2:cc:8 9:eb:cf:03 :21	D3:01:60:87:D 2:4C:F7:49:2E :49:FD:18:FE: C1:16:BE:AE: F4:A5:9D	32:CE:C4:88: 14:C4:42:74:1 5:FA:59:41:D B:17:51:87:E1 :B5:24:D6:B2: 9A:4C:DF:DE: 6D:50:6B:61: C7:39:66
1	4	CN = CrossCert Class 1 Consumer Individual Subscriber CA - G2	CN = VeriSign Class 1 Public Primary Certification Authority - G3	33:21:23:D7 :5B:36:28:9 1:F4:BD:D9: DF:51:FB:8 D:23	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, April 9, 2009, 12:00:00 AM GMT	Monday, April 8, 2019, 11:59:59 PM GMT	21:9e:e1: 8d:45:4e: 9b:a9:10: 35:92:53:f a:01:92:6	2D:48:70:96:7 D:2F:DA:23:7 3:21:74:8C:E7 :58:D9:A9:A3: FC:51:4F	F7:E2:23:C3: DC:48:C8:CC: BE:1A:68:BE: 58:3A:39:0D:8 6:EA:2F:02:A7 :84:F8:98:4A:



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		<p>OU = Terms of use at https://www.crosscert.com/rpa (c)09</p> <p>OU = VeriSign Trust Network</p> <p>O = "KECA, Inc."</p> <p>C = KR</p> <p>(Revoked on June 29th, 2018)</p>	<p>OU = "(c) 1999 VeriSign, Inc. - For authorized use only"</p> <p>OU = VeriSign Trust Network</p> <p>O = "VeriSign, Inc."</p> <p>C = US</p>							c:7a:70:2f:8a		AD:33:DD:DB:EC:C2:45
1	5	<p>CN = CrossCert Class 1 Consumer Individual Subscriber CA - G2</p> <p>OU = Terms of use at https://www.crosscert.com/rpa (c)09</p> <p>OU = VeriSign Trust Network</p> <p>O = "KECA, Inc."</p> <p>C = KR</p> <p>(Revoked on June 29th, 2018)</p>	<p>CN = VeriSign Class 1 Public Primary Certification Authority - G3</p> <p>OU = "(c) 1999 VeriSign, Inc. - For authorized use only"</p> <p>OU = VeriSign Trust Network</p> <p>O = "VeriSign, Inc."</p> <p>C = US</p>	0B:DE:45:A1:BD:2D:B6:EE:D2:ED:D2:17:9E:3A:A2:04	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, April 9, 2009, 12:00:00 AM GMT	Monday, April 8, 2019, 11:59:59 PM GMT	21:9e:e1:8d:45:4e:9b:a9:10:35:92:53:fa:01:92:6c:7a:70:2f:8a	7F:E5:02:87:9C:4B:49:A7:1F:53:6C:26:71:E6:96:69:AC:33:AA:F5	58:2B:09:3E:AD:6A:9C:C7:98:8F:34:23:55:D9:F7:92:52:42:67:61:44:8D:58:A5:A5:D0:B4:2C:AC:99:3B:EB
2	1	<p>CN = CrossCert Class 2 Managed PKI Individual Subscriber CA - G3</p> <p>OU = Symantec Trust Network</p> <p>O = "KECA, Inc."</p> <p>C = KR</p>	<p>CN = VeriSign Class 2 Public Primary Certification Authority - G3</p> <p>OU = "(c) 1999 VeriSign, Inc. - For authorized use only"</p> <p>OU = VeriSign Trust Network</p> <p>O = "VeriSign, Inc."</p> <p>C = US</p>	36:49:69:13:A4:A0:3D:08:EC:A2:2D:60:7F:B3:2C:84	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Tuesday, June 18, 2019, 12:00:00 AM GMT	Friday, March 31, 2023, 11:59:59 PM GMT	b3:10:0b:a2:ad:95:d7:3d:d6:b0:cf:bb:14:d6:59:7f:60:b3:ab:9f	B3:8B:D2:5C:07:FA:A2:D2:A6:92:A7:20:85:48:2C:4E:B2:BF:1A:94	7A:D6:07:28:74:55:24:70:F8:C3:B7:8F:75:CD:7E:0A:04:E2:A1:7B:DA:05:7B:2C:5E:99:2F:CE:3C:5B:AB:9C
2	2	<p>CN = CrossCert Class 2 Managed PKI Individual Subscriber CA - G3</p> <p>OU = Symantec Trust Network</p>	<p>CN = VeriSign Class 2 Public Primary Certification Authority - G3</p>	7D:DE:18:FE:E0:CA:BA:3D:DE:AF:32:E5:92:BE:7D:2E	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, June 4, 2015, 12:00:00 AM GMT	Wednesday, June 3, 2020, 11:59:59 PM GMT	b3:10:0b:a2:ad:95:d7:3d:d6:b0:cf:bb:14:d6:59:7f	F8:07:48:36:D7:9E:99:64:18:AA:6B:D3:92:8D:DF:2F:DD:D5:80:80	CC:59:45:85:24:AD:1B:29:F8:70:53:04:00:6D:89:DF:1F:ED:61:7F:02:9F:0D:3B:D3:F



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		O = "KECA, Inc." C = KR	OU = "(c) 1999 VeriSign, Inc. - For authorized use only" OU = VeriSign Trust Network O = "VeriSign, Inc." C = US								:60:b3:ab:9f	9:4D:A2:1E:96:D6:DA
2	3	CN = CrossCert Class 2 Managed PKI Individual Subscriber CA - G3 OU = Symantec Trust Network O = "KECA, Inc." C = KR (Revoked on June 29 th , 2018)	CN = VeriSign Class 2 Public Primary Certification Authority - G3 OU = "(c) 1999 VeriSign, Inc. - For authorized use only" OU = VeriSign Trust Network O = "VeriSign, Inc." C = US	24:C4:6C:53:88:99:11:F7:8B:76:65:DE:14:88:F2:E3	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, June 4, 2015, 12:00:00 AM GMT	Wednesday, June 3, 2020, 11:59:59 PM GMT	b3:10:0b:a2:ad:95:d7:3d:d6:b0:cf:bb:14:d6:59:7f:60:b3:ab:9f	AB:B6:18:2A:5E:6A:99:A2:35:D2:6C:B6:A2:BD:7E:A3:A0:54:37:27	DE:2A:4A:0C:04:9E:35:8B:F2:BF:BA:5A:38:AD:7F:AA:55:53:42:21:A0:21:F9:89:44:74:C1:46:CB:27:09:22
2	4	CN = CrossCert Class 2 Managed PKI Individual Subscriber CA - G2 OU = Terms of use at https://www.crosscert.com/rpa(c)09 OU = VeriSign Trust Network O = "KECA, Inc." C = KR	CN = VeriSign Class 2 Public Primary Certification Authority - G3 OU = "(c) 1999 VeriSign, Inc. - For authorized use only" OU = VeriSign Trust Network O = "VeriSign, Inc." C = US	23:1C:38:53:1C:E6:4B:74:C2:0F:B2:47:2B:21:E5:0F	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, April 9, 2009, 12:00:00 AM GMT	Monday, April 8, 2019, 11:59:59 PM GMT	9b:1c:16:76:a9:00:b0:8c:ea:fa:02:6d:a9:24:d7:87:fe:eb:b9:03	CF:96:02:E8:73:27:33:E7:AC:2C:B7:DF:1E:A6:E5:97:6E:C3:CD:8B	5B:E7:14:42:BD:33:F7:93:85:7D:49:FC:06:9B:FF:13:9C:7B:30:52:48:B5:3E:2A:E6:F3:B3:4E:71:EF:CD:2F
2	5	CN = CrossCert Class 2 Managed PKI Individual Subscriber CA - G2 OU = Terms of use at https://www.crosscert.com/rpa(c)09 OU = VeriSign Trust Network O = "KECA, Inc." C = KR	CN = VeriSign Class 2 Public Primary Certification Authority - G3 OU = "(c) 1999 VeriSign, Inc. - For authorized use only" OU = VeriSign Trust Network O = "VeriSign, Inc." C = US	26:37:B8:B3:2E:F6:B8:5F:EE:A4:77:70:87:48:01:1A	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, April 9, 2009, 12:00:00 AM GMT	Monday, April 8, 2019, 11:59:59 PM GMT	9b:1c:16:76:a9:00:b0:8c:ea:fa:02:6d:a9:24:d7:87:fe:eb:b9:03	40:19:4B:30:29:48:0D:54:7C:7B:01:01:A9:33:EB:9D:A3:64:60:E8	74:09:88:59:CA:E5:8B:B1:48:26:C0:AF:31:3F:35:F0:8A:75:35:8C:3E:AD:D9:BB:1A:01:2B:7E:5C:E5:1D:55



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		(Revoked on June 29 th , 2018)										
3	1	CN = POSCO Online CA - G3 OU = Class 2 Managed PKI Individual Subscriber CA OU = Symantec Trust Network O = POSCO C = KR	CN = CrossCert Class 2 CA - G3 OU = Symantec Trust Network O = "KECA, Inc." C = KR	77:C0:4C:C C:19:6C:3C: 85:0F:E2:F7 :C7:BC:05:9 3:05	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, June 4, 2015, 12:00:00 AM GMT	Monday, June 2, 2025, 11:59:59 PM GMT	3e:58:04: aa:2f:41:d 5:f0:3f:48: ba:5d:df:5 1:ea:95:df :ba:cd:d7	51:A7:D7:0B:6 C:BC:88:EE:7 F:16:A5:61:39 :8D:F8:D0:4D: 5F:94:96	A3:88:72:20:3 A:3F:D6:C6:2 C:67:4A:D8:E F:2D:B3:BE:4 8:A7:42:35:35: 4A:66:FB:7F:5 F:E3:C6:15:C 3:8E:7D
3	2	CN = POSCO Online CA - G3 OU = Class 2 Managed PKI Individual Subscriber CA OU = Symantec Trust Network O = POSCO C = KR	CN = CrossCert Class 2 CA - G3 OU = Symantec Trust Network O = "KECA, Inc." C = KR	1A:21:82:C 8:3D:3E:43: A4:72:6A:F 1:80:8A:67: 89:15	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, June 4, 2015, 12:00:00 AM GMT	Monday, June 2, 2025, 11:59:59 PM GMT	3e:58:04: aa:2f:41:d 5:f0:3f:48: ba:5d:df:5 1:ea:95:df :ba:cd:d7	17:9A:6B:4F:1 9:C0:F2:7F:55 :AC:EB:10:AF: A9:27:B2:91:0 9:61:97	D6:29:D1:88: A2:DA:09:5E: 6F:FF:06:A8:1 B:AA:DC:25:E 0:F6:AC:59:B A:E7:41:3E:20 :45:76:09:FE: 97:9B:81
3	3	CN = POSCO Online CA - G3 OU = Class 2 Managed PKI Individual Subscriber CA OU = Symantec Trust Network O = POSCO C = KR (Revoked on May 8 th , 2019)	CN = CrossCert Class 2 CA - G3 OU = Symantec Trust Network O = "KECA, Inc." C = KR	1F:82:F9:F C:59:D6:5E: 75:DD:5E:C F:FC:C7:E0 :43:A7	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, June 4, 2015, 12:00:00 AM GMT	Wednesd ay, June 3, 2020, 11:59:59 PM GMT	3e:58:04: aa:2f:41:d 5:f0:3f:48: ba:5d:df:5 1:ea:95:df :ba:cd:d7	E7:CE:A0:99: 6A:FB:54:CA: B0:EA:F9:49: EA:1D:25:E2: E3:4B:E2:44	6B:A5:01:26:7 D:83:C0:D7:8 4:52:F8:F7:AD :9F:80:E6:BE: 88:57:2F:C7:2 B:B1:65:DF:8 C:67:1E:8A:D 9:93:9D
3	4	CN = POSCO Online CA - G2 OU = Class 2 Managed PKI Individual Subscriber CA OU = Terms of use at https://www.crosscert.com/rpa (c)08 OU = VeriSign Trust Network	CN = CrossCert Class 2 CA - G2 OU = VeriSign Trust Network O = "KECA, Inc." C = KR	28:16:F0:6D :23:FE:CE: BB:BE:69:F 3:A7:8D:1E: 69:A9	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Tuesday, July 8, 2008, 12:00:00 AM GMT	Saturday, July 7, 2018, 11:59:59 PM GMT	07:54:37: 9b:89:62: 0f:5e:dd:b 6:f0:05:13 :ed:c7:4a: 8e:25:82: cb	79:C6:0E:11:3 A:96:68:AB:50 :4F:8D:46:2B: 8A:39:4A:1B:6 2:0B:55	E4:43:A4:DC: D3:98:2D:8D: 69:D8:DA:01: 0A:17:9A:26:A E:48:90:91:49: 76:97:BD:C4: 7D:9E:E4:1A: 67:B5:C3



		O = POSCO C = KR (Revoked on June 29 th , 2018)										
3	5	CN = POSCOPNS Online CA - G2 OU = Class 2 Managed PKI Individual Subscriber CA OU = Symantec Trust Network O = POSCOPNS C = KR (Revoked on April 13 th , 2018)	CN = CrossCert Class 2 CA - G3 OU = Symantec Trust Network O = "KECA, Inc." C = KR	7C:BA:42:96:F4:62:E0:83:0A:B2:89:33:54:A4:FD:62	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, June 4, 2015, 12:00:00 AM GMT	Wednesday, June 3, 2020, 11:59:59 PM GMT	9d:28:4c:b9:62:f2:e7:da:81:c7:53:18:90:28:8e:a3:a9:82:76:5c	9F:1C:B5:C2:3E:1C:03:01:29:11:25:4E:E9:32:F0:BF:D1:4C:EE:64	BC:B3:DD:DF:E0:82:D2:4C:5E:AC:BF:2D:29:DE:9E:1E:5F:16:C0:A4:BB:53:B6:C7:23:E0:33:A2:C0:0A:45:3A
3	6	CN = POSCOPNS Online CA OU = Class 2 Managed PKI Individual Subscriber CA OU = Terms of use at https://www.crosscert.com/rpa(c)11 OU = VeriSign Trust Network O = POSCOPNS C = KR (Revoked on June 29 th , 2018)	CN = CrossCert Class 2 CA - G2 OU = VeriSign Trust Network O = "KECA, Inc." C = KR	22:31:B3:68:92:43:12:2B:D5:58:0D:59:DE:9F:C4:5	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, January 15, 2015, 12:00:00 AM GMT	Tuesday, January 14, 2020, 11:59:59 PM GMT	Fd:7f:6f:6b:09:d8:bd:a9:af:ec:95:f9:f5:48:6e:6d:cce:0:fc:86	E4:FC:32:69:56:2E:E6:88:F6:F8:F5:AA:7C:87:2D:F6:4C:B9:F8:99	1F:A3:BD:5A:BE:51:DD:8B:C6:7B:3E:49:34:54:D4:0D:2C:63:A6:98:F1:50:81:09:14:BF:08:63:64:4D:63:D1
3	7	CN = POSCO Online CA - G2 OU = Class 2 Managed PKI Individual Subscriber CA OU = Terms of use at https://www.crosscert.com/rpa(c)08 OU = VeriSign Trust Network	CN = CrossCert Class 2 CA - G2 OU = VeriSign Trust Network O = "KECA, Inc." C = KR	29:94:D8:96:A7:E7:ED:E3:56:DA:94:B3:69:64:A1:52	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-1 With RSA Encryption	Tuesday, July 8, 2008, 12:00:00 AM GMT	Saturday, July 7, 2018, 11:59:59 PM GMT	07:54:37:9b:89:62:0f:5e:dd:b6:f0:05:13:ed:c7:4a:8e:25:82:cb	84:5D:97:9C:32:FC:61:E3:82:45:4A:44:2E:1F:84:26:31:02:04:93	28:2D:DA:A2:F0:F2:B9:9C:D6:96:80:10:14:8D:49:36:E9:18:78:10:52:D8:C4:D5:F6:9E:42:0E:7F:23:23:F0



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 Seoul, Republic of Korea

		O = POSCO C = KR (Revoked on June 29 th , 2018)										
3	8	CN = KOSPO Online CA OU = Class 2 Managed PKI Individual Subscriber CA OU = Terms of use at https://www.crosscert.com/rpa(c)09 OU = VeriSign Trust Network O = KOSPO C = KR	CN = CrossCert Class 2 CA - G2 OU = VeriSign Trust Network O = "KECA, Inc." C = KR	7B:4D:3D:06:F2:1B:E5:D0:84:3B:8E:AF:C4:22:28:04	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-1 With RSA Encryption	Monday, December 21, 2009, 12:00:00 AM GMT	Friday, July 6, 2018, 11:59:59 PM GMT	1c:f5:b4:f4:eb:17:d7:b7:18:60:00:7c:d3:17:e5:94:b4:ec:c5:b7	6C:9A:AC:56:C2:83:F2:44:1A:7A:E0:A7:B4:BC:F5:6E:79:6D:FB:D7	13:D3:6C:D4:2C:35:47:9F:4D:C0:72:8E:81:54:22:5C:72:22:82:0B:84:EE:4F:03:02:91:1B:89:DB:D3:D0:BB



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**Appendix B – Certification Practice Statement and Certificate Policy Versions In-Scope
In-Scope**

Policy Name	Version	Date
CrossCert Certification Practices Statement	3.11.1	June 30, 2019
CrossCert Certification Practices Statement	3.9.1	June 30, 2018
Certificate Policy for Symantec Trust Network (STN)	2.12	June 25, 2019
Certificate Policy for Symantec Trust Network (STN)	2.11	April 18, 2019
Certificate Policy for Symantec Trust Network (STN)	2.10	March 18, 2019
Certificate Policy for Symantec Trust Network (STN)	2.9	September 11, 2018



Assertion of Management as to
its Disclosure of its Business Practices and its Controls Over
its Certification Authority Operations
throughout the period July 1, 2018 to June 30, 2019

September 20, 2019

Korea Electronic Certification Authority, Inc. ("CrossCert") operates the Symantec Certification Authority (CA) services as a subordinate CA of DigiCert, Inc ("DigiCert") for its CAs as enumerated in Appendix A, and provides the following CA services:

- Subscriber registration
- Certificate Renewal
- Certificate rekey
- Certificate issuance
- Certificate distribution
- Certificate revocation
- Certificate validation
- Subscriber key generation and management
- Subordinate CA certification

The management of CrossCert is responsible for establishing and maintaining effective controls over its CA operations, in its [repository](#), 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.

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 CrossCert's Certification Authority operations. Furthermore, because of changes in conditions, the effectiveness of controls may vary over time.

CrossCert management has assessed its disclosures of its certificate practices and controls over its CA services. Based on that assessment, in CrossCert management's opinion, in providing its Certification Authority (CA) services at Republic of Korea, CrossCert CA, throughout the period July 1, 2018 to June 30, 2019, CrossCert has:

- disclosed its business, key lifecycle management, certificate lifecycle management, and CA environmental control practices in the applicable versions of its CrossCert Certification Practices Statement and DigiCert Certificate Policy for Symantec Trust Network (STN) enumerated in Appendix B
- maintained effective controls to provide reasonable assurance that:
 - CrossCert's Certification Practice Statement is consistent with its Certificate Policy
 - CrossCert provides its services in accordance with its Certificate Policy and Certification Practice 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 subscriber keys and certificates it manages is established and protected throughout their lifecycles;
 - subscriber information is properly authenticated (for the registration activities performed by CrossCert); 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 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

based on the [WebTrust Principles and Criteria for Certification Authorities, Version 2.2.](#), including the following:

CA Business Practices Disclosure

- Certification Practice Statement (CPS)

CA Business Practices Management

- Certification Practice Statement Management
- CP and CPS Consistency

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 Escrow (not applicable – service not provided by CrossCert)
- CA Key Transportation
- CA Key Migration



Subscriber Key Lifecycle Management Controls

- CA-Provided Subscriber Key Generation Services (not applicable – service not provided by CrossCert)
- CA-Provided Subscriber Key Storage and Recovery Services (not applicable – service not provided by CrossCert)
- Integrated Circuit Card (ICC) Lifecycle Management (not applicable – service not provided by CrossCert)
- Requirements for Subscriber Key Management

Certificate Lifecycle Management Controls

- Subscriber Registration
- Certificate Renewal
- Certificate Rekey
- Certificate Issuance
- Certificate Distribution
- Certificate Revocation
- Certificate Suspension (not applicable – service not provided by CrossCert)
- Certificate Validation

Subordinate CA Certificate Lifecycle Management Controls

- Subordinate CA Certificate Lifecycle Management

CrossCert does not escrow its CA keys, does not provide subscriber key generation services, does not provide subscriber key storage and recovery services, does not provide Integrated Circuit Card Lifecycle Management services to subscribers, and does not provide certificate suspension services. Accordingly, our examination did not extend to controls that would address those criteria.

Kyung-Won Chong
COO
CrossCert

A handwritten signature in black ink, appearing to read "Kyung-Won Chong", written over a light blue horizontal line.



Appendix A – List of CAs In-Scope

CA #	Cert #	Subject	Issuer	Serial Number	Key Algorithm	Key Sizes	Digest Algorithm	Not Before	Not After	SKI	SHA 1 Fingerprint	SHA 256 Fingerprint
1	1	CN = CrossCert Class 1 Consumer Individual Subscriber CA - G3 OU = Symantec Trust Network O = "KECA, Inc." C = KR	CN = VeriSign Class 1 Public Primary Certification Authority - G3 OU = "(c) 1999 VeriSign, Inc. - For authorized use only" OU = VeriSign Trust Network O = "VeriSign, Inc." C = US	02:8E:81:F2 :BA:E2:5D:4 2:5B:02:54: B5:01:90:8F :28	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Tuesday, June 18, 2019, 12:00:00 AM GMT	Friday, March 31, 2023, 11:59:59 PM GMT	90:72:8b:7a:46:ca:c9:cb:d1:95:7d:75:95:f2:cc:89:eb:cf:03:21	A3:AE:67:F3:3B:9A:8A:B5:5E:8E:EF:C7:A5:10:6C:1C:A4:AC:E2:6D	D4:F4:35:7C:10:3B:03:43:82:C5:A0:DB:F4:54:A9:C7:27:99:A2:8C:AB:32:CF:CC:28:F8:0A:A5:C7:B1:42:A4
1	2	CN = CrossCert Class 1 Consumer Individual Subscriber CA - G3 OU = Symantec Trust Network O = "KECA, Inc." C = KR	CN = VeriSign Class 1 Public Primary Certification Authority - G3 OU = "(c) 1999 VeriSign, Inc. - For authorized use only" OU = VeriSign Trust Network O = "VeriSign, Inc." C = US	28:30:F6:38 :9E:00:2D:8 4:8E:87:1E: 7D:87:90:85 :2D	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, June 4, 2015, 12:00:00 AM GMT	Wednesday, June 3, 2020, 11:59:59 PM GMT	90:72:8b:7a:46:ca:c9:cb:d1:95:7d:75:95:f2:cc:89:eb:cf:03:21	4F:40:63:64:8E:2F:41:75:D3:F2:8A:0A:43:F0:5B:D6:3F:E3:14:FA	2D:4C:89:0F:3D:B5:17:A2:44:44:A7:9E:27:BC:F2:05:94:19:04:D5:AA:51:0F:87:83:BC:6D:B1:AD:36:83:48
1	3	CN = CrossCert Class 1 Consumer Individual Subscriber CA - G3 OU = Symantec Trust Network O = "KECA, Inc." C = KR (Revoked on May 8 th , 2019)	CN = VeriSign Class 1 Public Primary Certification Authority - G3 OU = "(c) 1999 VeriSign, Inc. - For authorized use only" OU = VeriSign Trust Network O = "VeriSign, Inc." C = US	00:FC:78:8D:52:D4:44:16:78:24:3B:98:82:CB:15:B4	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, June 4, 2015, 12:00:00 AM GMT	Wednesday, June 3, 2020, 11:59:59 PM GMT	90:72:8b:7a:46:ca:c9:cb:d1:95:7d:75:95:f2:cc:89:eb:cf:03:21	D3:01:60:87:D2:4C:F7:49:2E:49:FD:18:FE:C1:16:BE:AE:F4:A5:9D	32:CE:C4:88:14:C4:42:74:15:F4:59:41:D8:17:51:87:E1:B5:24:D6:B2:9A:4C:DF:DE:6D:50:6B:61:C7:39:66



CA #	Cert #	Subject	Issuer	Serial Number	Key Algorithm	Key Sizes	Digest Algorithm	Not Before	Not After	SKI	SHA 1 Fingerprint	SHA 256 Fingerprint
1	4	CN = CrossCert Class 1 Consumer Individual Subscriber CA - G2 OU = Terms of use at https://www.crosscert.com/rpa (c)09 OU = VeriSign Trust Network O = "KECA, Inc." C = KR (Revoked on June 29 th , 2018)	CN = VeriSign Class 1 Public Primary Certification Authority - G3 OU = "(c) 1999 VeriSign, Inc. - For authorized use only" OU = VeriSign Trust Network O = "VeriSign, Inc." C = US	33:21:23:D7 :5B:36:28:9 1:F4:BD:D9: DF:51:FB:8 D:23	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, April 9, 2009, 12:00:00 AM GMT	Monday, April 8, 2019, 11:59:59 PM GMT	21:9e:e1: 8d:45:4e: 9b:a9:10: 35:92:53:f a:01:92:6 c:7a:70:2f :8a	2D:48:70:96:7 D:2F:DA:23:7 3:21:74:8C:E7 :58:D9:A9:A3: FC:51:4F	F7:E2:23:C3: DC:48:C8:CC: BE:1A:68:BE: 58:3A:39:0D:8 6:EA:2F:02:A7 :84:F8:98:4A: AD:33:DD:DB: EC:C2:45
1	5	CN = CrossCert Class 1 Consumer Individual Subscriber CA - G2 OU = Terms of use at https://www.crosscert.com/rpa (c)09 OU = VeriSign Trust Network O = "KECA, Inc." C = KR (Revoked on June 29 th , 2018)	CN = VeriSign Class 1 Public Primary Certification Authority - G3 OU = "(c) 1999 VeriSign, Inc. - For authorized use only" OU = VeriSign Trust Network O = "VeriSign, Inc." C = US	0B:DE:45:A 1:BD:2D:B6 :EE:D2:ED: D2:17:9E:3 A:A2:04	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, April 9, 2009, 12:00:00 AM GMT	Monday, April 8, 2019, 11:59:59 PM GMT	21:9e:e1: 8d:45:4e: 9b:a9:10: 35:92:53:f a:01:92:6 c:7a:70:2f :8a	7F:E5:02:87:9 C:4B:49:A7:1 F:53:6C:26:71 :E6:96:69:AC: 33:AA:F5	58:2B:09:3E:A D:6A:9C:C7:9 8:8F:34:23:55: D9:F7:92:52:4 2:67:61:44:8D :58:A5:A5:D0: B4:2C:AC:99: 3B:EB
2	1	CN = CrossCert Class 2 Managed PKI Individual Subscriber CA - G3 OU = Symantec Trust Network	CN = VeriSign Class 2 Public Primary Certification Authority - G3	36:49:69:13 :A4:A0:3D:0 8:EC:A2:2D :60:7F:B3:2 C:84	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Tuesday, June 18, 2019, 12:00:00 AM GMT	Friday, March 31, 2023, 11:59:59 PM GMT	b3:10:0b: a2:ad:95: d7:3d:d6: b0:cf:bb:1 4:d6:59:7f	B3:8B:D2:5C: 07:FA:A2:D2: A6:92:A7:20:8 5:48:2C:4E:B2 :BF:1A:94	7A:D6:07:28:7 4:55:24:70:F8: C3:B7:8F:75: CD:7E:0A:04: E2:A1:7B:DA: 05:7B:2C:5E:9



CA #	Cert #	Subject	Issuer	Serial Number	Key Algorithm	Key Sizes	Digest Algorithm	Not Before	Not After	SKI	SHA 1 Fingerprint	SHA 256 Fingerprint
		O = "KECA, Inc." C = KR	OU = "(c) 1999 VeriSign, Inc. - For authorized use only" OU = VeriSign Trust Network O = "VeriSign, Inc." C = US							:60:b3:ab: 9f		9:2F:CE:3C:5 B:AB:9C
2	2	CN = CrossCert Class 2 Managed PKI Individual Subscriber CA - G3 OU = Symantec Trust Network O = "KECA, Inc." C = KR	CN = VeriSign Class 2 Public Primary Certification Authority - G3 OU = "(c) 1999 VeriSign, Inc. - For authorized use only" OU = VeriSign Trust Network O = "VeriSign, Inc." C = US	7D:DE:18:F E:E0:CA:BA :3D:DE:AF: 32:E5:92:B E:7D:2E	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, June 4, 2015, 12:00:00 AM GMT	Wednesday, June 3, 2020, 11:59:59 PM GMT	b3:10:0b: a2:ad:95: d7:3d:d6: b0:cf:bb:1 4:d6:59:7f :60:b3:ab: 9f	F8:07:48:36:D 7:9E:99:64:18: AA:6B:D3:92: 8D:DF:2F:DD: D5:80:80	CC:59:45:85:2 4:AD:1B:29:F 8:70:53:04:00: 6D:89:DF:1F: ED:61:7F:02:9 F:0D:3B:D3:F 9:4D:A2:1E:96 :D6:DA
2	3	CN = CrossCert Class 2 Managed PKI Individual Subscriber CA - G3 OU = Symantec Trust Network O = "KECA, Inc." C = KR (Revoked on June 29 th , 2018)	CN = VeriSign Class 2 Public Primary Certification Authority - G3 OU = "(c) 1999 VeriSign, Inc. - For authorized use only" OU = VeriSign Trust Network O = "VeriSign, Inc." C = US	24:C4:6C:5 3:88:99:11: F7:8B:76:65 :DE:14:88:F 2:E3	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, June 4, 2015, 12:00:00 AM GMT	Wednesday, June 3, 2020, 11:59:59 PM GMT	b3:10:0b: a2:ad:95: d7:3d:d6: b0:cf:bb:1 4:d6:59:7f :60:b3:ab: 9f	AB:B6:18:2A: 5E:6A:99:A2:3 5:D2:6C:B6:A 2:BD:7E:A3:A 0:54:37:27	DE:2A:4A:0C: 04:9E:35:8B:F 2:BF:BA:5A:3 8:AD:7F:AA:5 5:53:42:21:A0: 21:F9:89:44:7 4:C1:46:CB:2 7:09:22
2	4	CN = CrossCert Class 2 Managed PKI Individual Subscriber CA - G2 OU = Terms of use at https://www.crosscert.com/rpa (c)09	CN = VeriSign Class 2 Public Primary Certification Authority - G3 OU = "(c) 1999 VeriSign, Inc. - For authorized use only" OU = VeriSign Trust Network	23:1C:38:53 :1C:E6:4B:7 4:C2:0F:B2: 47:2B:21:E5 :0F	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, April 9, 2009, 12:00:00 AM GMT	Monday, April 8, 2019, 11:59:59 PM GMT	9b:1c:16: 76:a9:00: b0:8c:ea:f a:02:6d:a 9:24:d7:8 7:fe:eb:b9 :03	CF:96:02:E8:7 3:27:33:E7:AC :2C:B7:DF:1E: A6:E5:97:6E: C3:CD:8B	5B:E7:14:42:B D:33:F7:93:85 :7D:49:FC:06: 9B:FF:13:9C:7 B:30:52:48:B5 :3E:2A:E6:F3: B3:4E:71:EF: CD:2F



CA #	Cert #	Subject	Issuer	Serial Number	Key Algorithm	Key Sizes	Digest Algorithm	Not Before	Not After	SKI	SHA 1 Fingerprint	SHA 256 Fingerprint
		OU = VeriSign Trust Network O = "KECA, Inc." C = KR	O = "VeriSign, Inc." C = US									
2	5	CN = CrossCert Class 2 Managed PKI Individual Subscriber CA - G2 OU = Terms of use at https://www.crosscert.com/rpa (c)09 OU = VeriSign Trust Network O = "KECA, Inc." C = KR (Revoked on June 29 th , 2018)	CN = VeriSign Class 2 Public Primary Certification Authority - G3 OU = "(c) 1999 VeriSign, Inc. - For authorized use only" OU = VeriSign Trust Network O = "VeriSign, Inc." C = US	26:37:B8:B3 :2E:F6:B8:5 F:EE:A4:77: 70:87:48:01 :1A	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, April 9, 2009, 12:00:00 AM GMT	Monday, April 8, 2019, 11:59:59 PM GMT	9b:1c:16: 76:a9:00: b0:8c:ea:f a:02:6d:a 9:24:d7:8 7:fe:eb:b9 :03	40:19:4B:30:2 9:48:0D:54:7C :7B:01:01:A9: 33:EB:9D:A3: 64:60:E8	74:09:88:59:C A:E5:8B:B1:4 8:26:C0:AF:31 :3F:35:F0:8A: 75:35:8C:3E:A D:D9:BB:1A:0 1:2B:7E:5C:E 5:1D:55
3	1	CN = POSCO Online CA - G3 OU = Class 2 Managed PKI Individual Subscriber CA OU = Symantec Trust Network O = POSCO C = KR	CN = CrossCert Class 2 CA - G3 OU = Symantec Trust Network O = "KECA, Inc." C = KR	77:C0:4C:C C:19:6C:3C: 85:0F:E2:F7 :C7:BC:05:9 3:05	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, June 4, 2015, 12:00:00 AM GMT	Monday, June 2, 2025, 11:59:59 PM GMT	3e:58:04: aa:2f:41:d 5:f0:3f:48: ba:5d:df:5 1:ea:95:df :ba:cd:d7	51:A7:D7:0B:6 C:BC:88:EE:7 F:16:A5:61:39 :8D:F8:D0:4D: 5F:94:96	A3:88:72:20:3 A:3F:D6:C6:2 C:67:4A:D8:E F:2D:B3:BE:4 8:A7:42:35:35: 4A:66:FB:7F:5 F:E3:C6:15:C 3:8E:7D
3	2	CN = POSCO Online CA - G3 OU = Class 2 Managed PKI Individual Subscriber CA OU = Symantec Trust Network	CN = CrossCert Class 2 CA - G3 OU = Symantec Trust Network O = "KECA, Inc."	1A:21:82:C 8:3D:3E:43: A4:72:6A:F 1:80:8A:67: 89:15	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, June 4, 2015, 12:00:00 AM GMT	Monday, June 2, 2025, 11:59:59 PM GMT	3e:58:04: aa:2f:41:d 5:f0:3f:48: ba:5d:df:5 1:ea:95:df :ba:cd:d7	17:9A:6B:4F:1 9:C0:F2:7F:55 :AC:EB:10:AF: A9:27:B2:91:0 9:61:97	D6:29:D1:88: A2:DA:09:5E: 6F:FF:06:A8:1 B:AA:DC:25:E 0:F6:AC:59:B A:E7:41:3E:20



CA #	Cert #	Subject	Issuer	Serial Number	Key Algorithm	Key Sizes	Digest Algorithm	Not Before	Not After	SKI	SHA 1 Fingerprint	SHA 256 Fingerprint
		O = POSCO C = KR	C = KR									:45:76:09:FE: 97:9B:81
3	3	CN = POSCO Online CA - G3 OU = Class 2 Managed PKI Individual Subscriber CA OU = Symantec Trust Network O = POSCO C = KR (Revoked on May 8 th , 2019)	CN = CrossCert Class 2 CA - G3 OU = Symantec Trust Network O = "KECA, Inc." C = KR	1F:82:F9:F C:59:D6:5E: 75:DD:5E:C F:FC:C7:E0 :43:A7	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, June 4, 2015, 12:00:00 AM GMT	Wednesday, June 3, 2020, 11:59:59 PM GMT	3e:58:04:aa:2f:41:d 5:f0:3f:48: ba:5d:df:5 1:ea:95:df :ba:cd:d7	E7:CE:A0:99: 6A:FB:54:CA: B0:EA:F9:49: EA:1D:25:E2: E3:4B:E2:44	6B:A5:01:26:7 D:83:C0:D7:8 4:52:F8:F7:AD :9F:80:E6:BE: 88:57:2F:C7:2 B:B1:65:DF:8 C:67:1E:8A:D 9:93:9D
3	4	CN = POSCO Online CA - G2 OU = Class 2 Managed PKI Individual Subscriber CA OU = Terms of use at https://www.crosscert.com/rpa(c)08 OU = VeriSign Trust Network O = POSCO C = KR (Revoked on June 29 th , 2018)	CN = CrossCert Class 2 CA - G2 OU = VeriSign Trust Network O = "KECA, Inc." C = KR	28:16:F0:6D :23:FE:CE: BB:BE:69:F 3:A7:8D:1E: 69:A9	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Tuesday, July 8, 2008, 12:00:00 AM GMT	Saturday, July 7, 2018, 11:59:59 PM GMT	07:54:37: 9b:89:62: 0f:5e:dd:b 6:f0:05:13 :ed:c7:4a: 8e:25:82: cb	79:C6:0E:11:3 A:96:68:AB:50 :4F:8D:46:2B: 8A:39:4A:1B:6 2:0B:55	E4:43:A4:DC: D3:98:2D:8D: 69:D8:DA:01: 0A:17:9A:26:A E:48:90:91:49: 76:97:BD:C4: 7D:9E:E4:1A: 67:B5:C3
3	5	CN = POSCOPNS Online CA - G2 OU = Class 2 Managed PKI Individual Subscriber CA	CN = CrossCert Class 2 CA - G3 OU = Symantec Trust Network O = "KECA, Inc." C = KR	7C:BA:42:9 6:F4:62:E0: 83:0A:B2:89 :33:54:A4:F D:62	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, June 4, 2015, 12:00:00 AM GMT	Wednesday, June 3, 2020, 11:59:59 PM GMT	9d:28:4c: b9:62:f2:e 7:da:81:c 7:53:18:9 0:28:8e:a	9F:1C:B5:C2: 3E:1C:03:01:2 9:11:25:4E:E9 :32:F0:BF:D1: 4C:EE:64	BC:B3:DD:DF: E0:82:D2:4C: 5E:AC:BF:2D: 29:DE:9E:1E: 5F:16:C0:A4: BB:53:B6:C7:



CA #	Cert #	Subject	Issuer	Serial Number	Key Algorithm	Key Sizes	Digest Algorithm	Not Before	Not After	SKI	SHA 1 Fingerprint	SHA 256 Fingerprint
		OU = Symantec Trust Network O = POSCOPNS C = KR (Revoked on April 13 th , 2018)								3:a9:82:76:5c		23:E0:33:A2:C0:0A:45:3A
3	6	CN = POSCOPNS Online CA OU = Class 2 Managed PKI Individual Subscriber CA OU = Terms of use at https://www.crosscert.com/rpa (c)11 OU = VeriSign Trust Network O = POSCOPNS C = KR (Revoked on June 29 th , 2018)	CN = CrossCert Class 2 CA - G2 OU = VeriSign Trust Network O = "KECA, Inc." C = KR	22:31:B3:68:92:43:12:2B:D5:58:0D:59:DE:9F:C C:45	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-256 With RSA Encryption	Thursday, January 15, 2015, 12:00:00 AM GMT	Tuesday, January 14, 2020, 11:59:59 PM GMT	Fd:7f:6f:6b:09:d8:bd:a9:af:ec:95:f9:f5:48:6e:6d:cc:e0:fc:86	E4:FC:32:69:56:2E:E6:88:F6:F8:F5:AA:7C:87:2D:F6:4C:B9:F8:99	1F:A3:BD:5A:BE:51:DD:8B:C6:7B:3E:49:34:54:D4:0D:2C:63:A6:98:F1:50:81:09:14:BF:08:63:64:4D:63:D1
3	7	CN = POSCO Online CA - G2 OU = Class 2 Managed PKI Individual Subscriber CA OU = Terms of use at https://www.crosscert.com/rpa (c)08 OU = VeriSign Trust Network O = POSCO C = KR	CN = CrossCert Class 2 CA - G2 OU = VeriSign Trust Network O = "KECA, Inc." C = KR	29:94:D8:96:A7:E7:ED:E3:56:DA:94:B3:69:64:A1:52	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-1 With RSA Encryption	Tuesday, July 8, 2008, 12:00:00 AM GMT	Saturday, July 7, 2018, 11:59:59 PM GMT	07:54:37:9b:89:62:0f:5e:dd:b6:f0:05:13:ed:c7:4a:8e:25:82:cb	84:5D:97:9C:32:FC:61:E3:82:45:4A:44:2E:1F:84:26:31:02:04:93	28:2D:DA:A2:F0:F2:B9:9C:D6:96:80:10:14:8D:49:36:E9:18:78:10:52:D8:C4:D5:F6:9E:42:0E:7F:23:23:F0



CA #	Cert #	Subject	Issuer	Serial Number	Key Algorithm	Key Sizes	Digest Algorithm	Not Before	Not After	SKI	SHA 1 Fingerprint	SHA 256 Fingerprint
		(Revoked on June 29 th , 2018)										
3	8	CN = KOSPO Online CA OU = Class 2 Managed PKI Individual Subscriber CA OU = Terms of use at https://www.crosscert.com/rpa (c)09 OU = VeriSign Trust Network O = KOSPO C = KR	CN = CrossCert Class 2 CA - G2 OU = VeriSign Trust Network O = "KECA, Inc." C = KR	7B:4D:3D:06:F2:1B:E5:D0:84:3B:8E:AF:C4:22:28:04	PKCS #1 RSA Encryption	2048 bits	PKCS #1 SHA-1 With RSA Encryption	Monday, December 21, 2009, 12:00:00 AM GMT	Friday, July 6, 2018, 11:59:59 PM GMT	1c:f5:b4:f4:eb:17:d7:b7:18:60:00:7c:d3:17:e5:94:b4:ec:c5:b7	6C:9A:AC:56:C2:83:F2:44:1A:7A:E0:A7:B4:BC:F5:6E:79:6D:FB:D7	13:D3:6C:D4:2C:35:47:9F:4D:C0:72:8E:81:54:22:5C:72:22:82:0B:84:EE:4F:03:02:91:1B:89:DB:D3:D0:BB



Appendix B – Certification Practice Statement and Certificate Policy Versions In-Scope In-Scope

Policy Name	Version	Date
CrossCert Certification Practices Statement	3.11.1	June 30, 2019
CrossCert Certification Practices Statement	3.9.1	June 30, 2018
Certificate Policy for Symantec Trust Network (STN)	2.12	June 25, 2019
Certificate Policy for Symantec Trust Network (STN)	2.11	April 18, 2019
Certificate Policy for Symantec Trust Network (STN)	2.10	March 18, 2019
Certificate Policy for Symantec Trust Network (STN)	2.9	September 11, 2018