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REPORT OF THE INDEPENDENT ACCOUNTANT

To the management of DigiCert, Inc. ("DigiCert"):

We have examined DigiCert management's <u>assertion</u>, that for its Certification Authority ("CA") operations at various locations in the United States of America, throughout the period November 1, 2018 to October 31, 2019, for its CAs as enumerated in <u>Attachment B</u>, DigiCert has:

- disclosed its business, key lifecycle management, certificate lifecycle management, and CA environmental control practices in its:
 - Symantec Shared Service Provider ("Symantec SSP") Certification Practice Statement ("CPS") version as enumerated in <u>Attachment A</u> that is consistent with the X.509 Certificate Policy For the U.S. Federal PKI Common Policy Framework ("FCPF CP") versions as enumerated in <u>Attachment A</u> (including sections 1 through 9); and
 - Memorandum of Agreement as set out in <u>Attachment A</u> between the Federal PKI Policy Authority and DigiCert (including all sections)
- provided its CA services in accordance with its disclosed practices, including:
 - FCPF CP versions as set out in <u>Attachment A</u> (including sections 1 through 9);
 - Symantec SSP CPS version as set out in <u>Attachment A</u> that is consistent with the FCPF CP versions as set out in <u>Attachment A</u> (including sections 1 through 9); and
 - Memorandum of Agreement as set out in <u>Attachment A</u> between the Federal PKI Policy Authority and DigiCert (including all sections)
- 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; and
 - o 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 v2.1.

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



The relative effectiveness and significance of specific controls at DigiCert 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.

DigiCert makes use of external registration authorities for all subscriber registration activities for the Symantec SSP - Customer Specific CAs as disclosed in the Symantec SSP CPS versions enumerated in <u>Attachment A</u>. Our examination did not extend to the controls exercised by these external registration authorities.

DigiCert does not escrow its CA keys, does not provide Integrated Circuit Card Lifestyle Management services to subscribers, and does not provide certificate renewal services. DigiCert does not provide subordinate CA certificate lifecycle management services to third parties. Accordingly, our examination did not extend to controls that would address those criteria.

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 judgement, 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.

Because of the nature and inherent limitations of controls, DigiCert'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 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 DigiCert's services other than its CA operations at various locations in the United States of America, nor the suitability of any of DigiCert's services for any customer's intended purpose.

BDG USA, LLP

February 3, 2020



Attachment A - Certification Practice Statement and Certificate Policy Versions In-Scope

Policy Name	Version	Date
Symantec Shared Service Provider Certification Practice Statement	2.0	September 15, 2017
X.509 Certificate Policy For the U.S. Federal PKI Common Policy Framework	1.31	February 8, 2019
X.509 Certificate Policy For the U.S. Federal PKI Common Policy Framework	1.30	October 4, 2018
Memorandum of Agreement between the Federal PKI Policy Authority and Symantec		August 2, 2017



Attachment B - List of CAs In-Scope

Symantec Intermediate CAs			
Subject DN	Serial Number	Valid From	Valid To
Country = US, Organization = VeriSign, Inc., Common Name = VeriSign SSP Intermediate CA - G3	0196	12/10/2010	12/9/2020
Country = US, Organization = Symantec Corporation, Common Name = Symantec SSP Intermediate CA - G4	258E	11/12/2014	11/12/2024

VeriSign SSP Intermediate CA - G3				
Subject DN	Serial Number	Valid From	Valid To	
Country = US, Organization = U.S. Government, Organizational Unit = U.S. Department of Transportation, Common Name = U.S. Department of Transportation SSP Device CA G3	179BFAECC0894387A691C8406C0EC5FD	12/10/2010	12/9/2018	
Country = US, Organization = U.S. Government, Organizational Unit = U.S. Department of Energy, Common Name = Naval Reactors SSP Device CA G2	1241BF8C5B2199238F253E80A2E2BA92	12/10/2010	12/9/2018	
Country = US, Organization = U.S. Government, Organizational Unit = U.S. Nuclear Regulatory Commission, Common Name = NRC SSP Device CA G2	0672492E01F52B8877283BD69879F81A	9/19/2011	9/18/2019	
Country = US, Organization = U.S. Government, Organizational Unit = U.S. Department of Education, Common Name = U.S. Department of Education Device CA - G3	01E8BC81C9DCC387BB9453A65947D18A	10/20/2011	10/19/2019	
Country = US, Organization = U.S. Government, Organizational Unit = U.S. Nuclear Regulatory Commission, Common Name = NRC SSP Device CA G2	79BE7FC4F70304DB13A113F850D469E5	9/19/2011	12/8/2020	

Symantec SSP Intermediate CA - G4				
Subject DN	Serial Number	Valid From	Valid To	
Country = US, Organization = U.S. Government, Organizational Unit = U.S. Nuclear Regulatory Commission, Common Name = NRC SSP Device CA G3	3E81873CDD063EF174E5FB08C93FD06A	11/25/2014	11/11/2024	



2C0218167772FB57416AD571C9E5F1EE		
	12/11/2014	11/11/2024
61A90F3E5FF532F9FE6209D931279A82	12/11/2014	11/11/2024
100F05DD316CA819D9D39FEBC661B326	11/25/2014	11/11/2024
2355994850457C656B1B9A58E3FC3F98	7/30/2015	11/11/2024
224AD7D35A9D34350671F9B8BE45A23A	7/21/2015	11/11/2024
6463446C4368D0F89D12BC6F335265	12/10/2015	11/11/2024
18876CD9FFD738AB7E69350ECC9D41F8	12/10/2015	11/11/2024
2F58BF30B1BB5BF1A6D4996B2E5D8809	7/21/2015	11/11/2024
52DC1355E4A05BE7CA3F40D56C583E51	2/20/2018	11/11/2024
2D70005A7B73DDA0C795F5F43C4607B9	2/20/2018	11/11/2024
-	100F05DD316CA819D9D39FEBC661B326 2355994850457C656B1B9A58E3FC3F98 224AD7D35A9D34350671F9B8BE45A23A 6463446C4368D0F89D12BC6F335265 18876CD9FFD738AB7E69350ECC9D41F8 2F58BF30B1BB5BF1A6D4996B2E5D8809 52DC1355E4A05BE7CA3F40D56C583E51	100F05DD316CA819D9D39FEBC661B326 11/25/2014 2355994850457C656B1B9A58E3FC3F98 7/30/2015 224AD7D35A9D34350671F9B8BE45A23A 7/21/2015 6463446C4368D0F89D12BC6F335265 12/10/2015 18876CD9FFD738AB7E69350ECC9D41F8 12/10/2015 2F58BF30B1BB5BF1A6D4996B2E5D8809 7/21/2015 52DC1355E4A05BE7CA3F40D56C583E51 2/20/2018



DIGICERT, INC. MANAGEMENT'S ASSERTION

DigiCert, Inc. ("DigiCert") operates the Certification Authority ("CA") services for its CAs as enumerated in <u>Attachment B</u> and provides the following CA services:

- Certificate rekey
- Certificate issuance
- Certificate distribution
- Certificate revocation
- Certificate suspension
- Certificate validation
- Subscriber key generation and management

The management of DigiCert is responsible for establishing and maintaining effective controls over its CA operations, including its CA business practices disclosure on its <u>website</u>, 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 DigiCert's Certification Authority operations. Furthermore, because of changes in conditions, the effectiveness of controls may vary over time.

DigiCert management has assessed its disclosures of its certificate practices and controls over its CA services. Based on that assessment, in DigiCert management's opinion, in providing its CA services at various locations in the United States of America, throughout the period November 1, 2018 to October 31, 2019, DigiCert has:

- disclosed its business, key lifecycle management, certificate lifecycle management, and CA environmental control practices in the applicable version of its Symantec Shared Service Provider ("Symantec SSP") Certification Practice Statement ("CPS") (including sections 1 through 9), versions of its X.509 Certificate Policy For the U.S. Federal PKI Common Policy Framework ("FCPF CP") (including sections 1 through 9), and the Memorandum of Agreement as enumerated in <u>Attachment A</u>
- maintained effective controls to provide reasonable assurance that:
 - DigiCert's Symantec SSP CPS is consistent with the FCPF CP (including sections 1 through 9)
 - DigiCert provides its services in accordance with its Symantec SSP CPS, the FCPF CP, and the Memorandum of Agreement
- maintained effective controls to provide reasonable assurance that:
 - the integrity of keys and certificates it manages is established and protected throughout their lifecycles; and



- $\circ~$ the integrity of subscriber keys and certificates it manages is established and protected throughout their lifecycles;
- maintained effective controls to provide reasonable assurance that:
 - logical and physical access to CA systems and data is restricted to authorized individuals;
 - \circ 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 <u>WebTrust Principles and Criteria for Certification Authorities v2.1</u>, including the following:

CA Business Practices Disclosure

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

CA Business Practices Management

- Certificate Policy 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 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

- CA-Provided Subscriber Key Generation Services
- CA-Provided Subscriber Key Storage and Recovery Services
- Requirements for Subscriber Key Management

Certificate Lifecycle Management Controls

- Certificate Rekey
- Certificate Issuance
- Certificate Distribution
- Certificate Revocation
- Certificate Suspension
- Certificate Validation

DigiCert makes use of external registration authorities for all subscriber registration activities for the Symantec SSP - Customer Specific CAs as disclosed in the Symantec SSP CPS versions enumerated in <u>Attachment B</u>. Our assertion did not extend to the controls exercised by these external registration authorities.

DigiCert does not perform subscriber registration activities, does not escrow its CA keys, does not provide Integrated Circuit Card Lifestyle Management services to subscribers, and does not provide certificate renewal services. DigiCert does not provide subordinate CA certificate lifecycle management services to third parties. Accordingly, our assertion does not extend to controls that would address those criteria.

DigiCert, Inc.

Time

Dan Timpson Chief Technology Officer

February 3, 2020



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Policy Name	Version	Date
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Country = US, Organization = U.S. Government, Organizational Unit = U.S. Department of Energy, Common Name = Naval Reactors SSP Device CA G2	1241BF8C5B2199238F253E80A2E2BA92	12/10/2010	12/9/2018	
Country = US, Organization = U.S. Government, Organizational Unit = U.S. Nuclear Regulatory Commission, Common Name = NRC SSP Device CA G2	0672492E01F52B8877283BD69879F81A	9/19/2011	9/18/2019	
Country = US, Organization = U.S. Government, Organizational Unit = U.S. Department of Education, Common Name = U.S. Department of Education Device CA - G3	01E8BC81C9DCC387BB9453A65947D18A	10/20/2011	10/19/2019	
Country = US, Organization = U.S. Government, Organizational Unit = U.S. Nuclear Regulatory Commission, Common Name = NRC SSP Device CA G2	79BE7FC4F70304DB13A113F850D469E5	9/19/2011	12/8/2020	

Symantec SSP Intermediate CA - G4			
Subject DN	Serial Number	Valid From	Valid To
Country = US, Organization = U.S. Government, Organizational Unit = U.S. Nuclear Regulatory Commission, Common Name = NRC SSP Device CA G3	3E81873CDD063EF174E5FB08C93FD06A	11/25/2014	11/11/2024



Subject DN	Serial Number	Valid From	Valid To
Country = US, Organization = U.S. Government, Organizational Unit = U.S. Department of Transportation, Common Name = U.S. Department of Transportation Device CA G4	2C0218167772FB57416AD571C9E5F1EE	12/11/2014	11/11/2024
Country = US, Organization = U.S. Government, Organizational Unit = U.S. Department of Transportation, Common Name = U.S. Department of Transportation Agency CA G4	61A90F3E5FF532F9FE6209D931279A82	12/11/2014	11/11/2024
Country = US, Organization = U.S. Government, Organizational Unit = U.S. Nuclear Regulatory Commission, Common Name = NRC SSP Agency CA G3	100F05DD316CA819D9D39FEBC661B326	11/25/2014	11/11/2024
Country = US, Organization = U.S. Government, Organizational Unit = Department of Commerce, Common Name = Bureau of the Census Agency CA	2355994850457C656B1B9A58E3FC3F98	7/30/2015	11/11/2024
Country = US, Organization = U.S. Government, Organizational Unit = U.S. Department of Education, Common Name = U.S. Department of Education Agency CA - G4	224AD7D35A9D34350671F9B8BE45A23A	7/21/2015	11/11/2024
Country = US, Organization = U.S. Government, Organizational Unit = U.S. Department of Energy, Common Name = Naval Reactors SSP Device CA G3	6463446C4368D0F89D12BC6F335265	12/10/2015	11/11/2024
Country = US, Organization = U.S. Government, Organizational Unit = U.S. Department of Energy, Common Name = Naval Reactors SSP Agency CA G3	18876CD9FFD738AB7E69350ECC9D41F8	12/10/2015	11/11/2024
Country = US, Organization = U.S. Government, Organizational Unit = U.S. Department of Education, Common Name = U.S. Department of Education Device CA - G4	2F58BF30B1BB5BF1A6D4996B2E5D8809	7/21/2015	11/11/2024
Country = US, Organization = U.S. Government, Organizational Unit = U.S. Nuclear Regulatory Commission, Common Name = NRC SSP Device CA G4	52DC1355E4A05BE7CA3F40D56C583E51	2/20/2018	11/11/2024
Country = US, Organization = U.S. Government, Organizational Unit = U.S. Nuclear Regulatory Commission, Common Name = NRC SSP Agency CA G4	2D70005A7B73DDA0C795F5F43C4607B9	2/20/2018	11/11/2024