



## REPORT OF THE INDEPENDENT ACCOUNTANT

To the management of Amazon Trust Services, LLC (“ATS”):

### Scope

We have examined ATS management’s [assertion](#) that for its Certification Authority (“CA”) operations in Washington and Virginia, in the United States of America, for its CAs as enumerated in [Attachment B](#), ATS has:

- maintained effective controls to provide reasonable assurance that it meets the Network and Certificate System Security Requirements as set forth by the CA/Browser Forum

throughout the period January 16, 2023 to January 15, 2024, based on the [WebTrust Principles and Criteria for Certification Authorities - Network Security v1.0](#).

### Certification Authority’s Responsibilities

ATS’ 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 - Network Security v1.0](#).

### Independent Accountant’s Responsibilities

Our responsibility is to express an opinion on management’s assertion based on our examination. Our examination was conducted in accordance with attestation standards established by the 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 specific controls at ATS 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 ATS' services other than its CA operations in Washington and Virginia, in the United States of America, nor the suitability of any of ATS' services for any customer's intended purpose.

### **Use of the WebTrust Seal**

ATS' use of the WebTrust for Certification Authorities - Network Security 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

April 8, 2024



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

<b>Policy Name</b>	<b>Version</b>	<b>Effective Date</b>
<a href="#">Amazon Trust Services Certificate Policy</a>	1.0.13	July 28, 2023
Amazon Trust Services Certificate Policy	1.0.12	August 29, 2022
<a href="#">Amazon Trust Services Certification Practices Statement</a>	1.0.14	July 28, 2023
Amazon Trust Services Certification Practices Statement	1.0.13	August 29, 2022



## ATTACHMENT B - IN-SCOPE CAs

Root CA Certificates				
Subject DN	SHA2 Thumbprint	SPKI SHA256	Valid From	Valid To
CN = Amazon Root CA 1 O = Amazon C = US	8ECDE6884F3D87B1125BA31AC3FCB13D7016DE7F57CC904FE1CB97C6AE98196E	FBE3018031F9586BCBF417 27E417B7D1C45C2F47F93B E372A17B96B50757D5A2	5/25/2015	1/16/2038
CN = Amazon Root CA 2 O = Amazon C = US	1BA5B2AA8C65401A82960118F80BEC4F62304D83CEC4713A19C39C011EA46DB4	7F4296FC5B6A4E3B35D3C3 69623E364AB1AF381D8FA7 121533C9D6C633EA2461	5/25/2015	5/25/2040
CN = Amazon Root CA 3 O = Amazon C = US	18CE6CFE7BF14E60B2E347B8DFE868CB31D02EBB3ADA271569F50343B46DB3A4	36ABC32656ACFC645C61B7 1613C4BF21C787F5CABBEE 48348D58597803D7ABC9	5/25/2015	5/25/2040
CN = Amazon Root CA 4 O = Amazon C = US	E35D28419ED02025CFA69038CD623962458DA5C695FBDEA3C22B0BFB25897092	F7ECDED5C66047D28ED64 66B543C40E0743ABE81D10 9254DCF845D4C2C7853C5	5/25/2015	5/25/2040
CN = Starfield Services Root Certificate Authority - G2 <sup>1</sup> O = Starfield Technologies, Inc. L = Scottsdale S = Arizona C = US	568D6905A2C88708A4B3025190EDCFEDB1974A606A13C6E5290FCB2AE63EDAB5	2B071C59A0A0AE76B0EAD B2BAD23BAD4580B69C360 1B630C2EAF0613AFA83F92	8/31/2009	12/31/2037

Cross-Signed CA Certificates				
Subject DN	SHA2 Thumbprint	SPKI SHA256	Valid From	Valid To
CN = Amazon Root CA 1 O = Amazon C = US	87DCD4DC74640A322CD205552506D1BE64F12596258096544986B4850BC72706	FBE3018031F9586BCBF417 27E417B7D1C45C2F47F93B E372A17B96B50757D5A2	5/25/2015	12/31/2037
	391220705B75BCF3ED3CD4B3631213F569D2CF8226101E170799A5354AB12861		10/21/2015	12/31/2037
CN = Amazon Root CA 2 O = Amazon C = US	8B358466D66126312120645A5875A6A57E3C81D98476A967604244254EAC00F0	7F4296FC5B6A4E3B35D3C3 69623E364AB1AF381D8FA7 121533C9D6C633EA2461	5/25/2015	12/31/2037

<sup>1</sup> ATS assumed operation of this Root CA on June 10, 2015. Starfield Technologies operated this CA prior to June 10, 2015 and was responsible for its key generation.



Cross-Signed CA Certificates				
Subject DN	SHA2 Thumbprint	SPKI SHA256	Valid From	Valid To
CN = Amazon Root CA 3 O = Amazon C = US	40C826FDB22BA32A2F9DB4F94770F72B8B1DA9C8FFDA7B11E6F27AF245C89B5E	36ABC32656ACFC645C61B7 1613C4BF21C787F5CABBEE 48348D58597803D7ABC9	5/25/2015	12/31/2037
CN = Amazon Root CA 4 O = Amazon C = US	543D9B7FC2A6471CD84FCA52C2CF6159DF83EBFCD88D8B08B5AF3F88737F52E6	F7CEDDED5C66047D28ED64 66B543C40E0743ABE81D10 9254DCF845D4C2C7853C5	5/25/2015	12/31/2037

Intermediate CA Certificates <sup>2</sup>				
Subject DN	SHA2 Thumbprint	SPKI SHA256	Valid From	Valid To
CN = Amazon OU = Server CA 0A O = Amazon C = US	DFCC775C644DB4A33AD71293433F463C8E31057CE22CB267F9D31A0353F4FC2F	B58539ECAA13921CCDB80 D38D34875FDE6471C5A159 D9BEEF2FA6F99983BD611	10/21/2015	10/18/2025
CN = Amazon OU = Server CA 1A O = Amazon C = US	39C763A9CF19D923F977D23626AB890449A444AB8B795C815EF1EF81FEBCE1E38	64BB5BD80311FA3F53BD99 404CAB8762AD6E048447D0 A97F219FCECA1661F37C	10/21/2015	10/18/2025
CN = Amazon OU = Server CA 2A O = Amazon C = US	72130E3B28900349214617F4D6F3FB85D08475EE78BF095C59458A14D1828866	1BDA5AFF83781380BF708 198F9F7D2DB1E067F14BB9 EA7BAE70AAC0B0305E7B	10/21/2015	10/18/2025
CN = Amazon OU = Server CA 3A O = Amazon C = US	205154B777EDC55A5146585A5E54E054A70BE4AAD3B85D02318DA27BF807ADF1	7C53B5DF79135D9AF6195E F6BB73AB98C2C89950B892 B192DFFD784DB925A41C	10/21/2015	10/18/2025
CN = Amazon OU = Server CA 4A O = Amazon C = US	7BED29276ACBED9F176F38BBA3A67CE5815B5CBF1522C7BB59ECD86B09E16ED2	17708DFF2B7FAEC9CB1B52 15EBB2421D97B0543C936F AC9D6E02B92F20E5C707	10/21/2015	10/18/2025

<sup>2</sup> ATS revoked all the Intermediate CA certificates in this table on May 24, 2023.



## AMAZON TRUST SERVICES, LLC MANAGEMENT'S ASSERTION

Amazon Trust Services, LLC ("ATS") operates the Certification Authority ("CA") services for the CAs enumerated in [Attachment B](#) in scope for Network Security Requirements and provides CA services.

The management of ATS is responsible for establishing and maintaining effective controls over its SSL and non-SSL CA operations, including its network and certificate security system 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 ATS' CA operations. Furthermore, because of changes in conditions, the effectiveness of controls may vary over time.

ATS management has assessed its controls over its SSL CA services. Based on that assessment, in providing its SSL and non-SSL CA services in Washington and Virginia, in the United States of America, ATS has:

- maintained effective controls to provide reasonable assurance that it meets the Network and Certificate System Security Requirements as set forth by the CA/Browser Forum

throughout the period January 16, 2023 to January 15, 2024, based on the [WebTrust Principles and Criteria for Certification Authorities - Network Security v1.0](#).

*Jonathan Kozolchyk*

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Jonathan Kozolchyk  
Vice President  
Amazon Trust Services, LLC

April 8, 2024

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CN = Amazon Root CA 2 O = Amazon C = US	1BA5B2AA8C65401A82960118F80BEC4F62304D83CEC4713A19C39C011EA46DB4	7F4296FC5B6A4E3B35D3C3 69623E364AB1AF381D8FA7 121533C9D6C633EA2461	5/25/2015	5/25/2040
CN = Amazon Root CA 3 O = Amazon C = US	18CE6CFE7BF14E60B2E347B8DFE868CB31D02EBB3ADA271569F50343B46DB3A4	36ABC32656ACFC645C61B7 1613C4BF21C787F5CABBEE 48348D58597803D7ABC9	5/25/2015	5/25/2040
CN = Amazon Root CA 4 O = Amazon C = US	E35D28419ED02025CFA69038CD623962458DA5C695FBDEA3C22B0BFB25897092	F7ECDED5C66047D28ED64 66B543C40E0743ABE81D10 9254DCF845D4C2C7853C5	5/25/2015	5/25/2040
CN = Starfield Services Root Certificate Authority - G2 <sup>1</sup> O = Starfield Technologies, Inc. L = Scottsdale S = Arizona C = US	568D6905A2C88708A4B3025190EDCFEDB1974A606A13C6E5290FCB2AE63EDAB5	2B071C59A0A0AE76B0EAD B2BAD23BAD4580B69C360 1B630C2EAF0613AFA83F92	8/31/2009	12/31/2037

Cross-Signed CA Certificates				
Subject DN	SHA2 Thumbprint	SPKI SHA256	Valid From	Valid To
CN = Amazon Root CA 1 O = Amazon C = US	87DCD4DC74640A322CD205552506D1BE64F12596258096544986B4850BC72706	FBE3018031F9586BCBF417 27E417B7D1C45C2F47F93B E372A17B96B50757D5A2	5/25/2015	12/31/2037
	391220705B75BCF3ED3CD4B3631213F569D2CF8226101E170799A5354AB12861		10/21/2015	12/31/2037
CN = Amazon Root CA 2 O = Amazon C = US	8B358466D66126312120645A5875A6A57E3C81D98476A967604244254EAC00F0	7F4296FC5B6A4E3B35D3C3 69623E364AB1AF381D8FA7 121533C9D6C633EA2461	5/25/2015	12/31/2037
CN = Amazon Root CA 3 O = Amazon C = US	40C826FDB22BA32A2F9DB4F94770F72B8B1DA9C8FFDA7B11E6F27AF245C89B5E	36ABC32656ACFC645C61B7 1613C4BF21C787F5CABBEE 48348D58597803D7ABC9	5/25/2015	12/31/2037

<sup>1</sup> ATS assumed operation of this Root CA on June 10, 2015. Starfield Technologies operated this CA prior to June 10, 2015 and was responsible for its key generation.



Cross-Signed CA Certificates				
Subject DN	SHA2 Thumbprint	SPKI SHA256	Valid From	Valid To
CN = Amazon Root CA 4 O = Amazon C = US	543D9B7FC2A6471CD84FCA52C2CF6159DF83EBFCD88D8B08B5AF3F88737F52E6	F7ECDDED5C66047D28ED64 66B543C40E0743ABE81D10 9254DCF845D4C2C7853C5	5/25/2015	12/31/2037

Intermediate CA Certificates <sup>2</sup>				
Subject DN	SHA2 Thumbprint	SPKI SHA256	Valid From	Valid To
CN = Amazon OU = Server CA 0A O = Amazon C = US	DFCC775C644DB4A33AD71293433F463C8E31057CE22CB267F9D31A0353F4FC2F	B58539ECAA13921CCDB80 D38D34875FDE6471C5A159 D9BEEF2FA6F99983BD611	10/21/2015	10/18/2025
CN = Amazon OU = Server CA 1A O = Amazon C = US	39C763A9CF19D923F977D23626AB890449A444AB8B795C815EF1EF81FEBC1E38	64BB5BD80311FA3F53BD99 404CAB8762AD6E048447D0 A97F219FCECA1661F37C	10/21/2015	10/18/2025
CN = Amazon OU = Server CA 2A O = Amazon C = US	72130E3B28900349214617F4D6F3FB85D08475EE78BF095C59458A14D1828866	1BDA5AFF83781380BF708 198F9F7D2DB1E067F14BB9 EA7BAE70AAC0B0305E7B	10/21/2015	10/18/2025
CN = Amazon OU = Server CA 3A O = Amazon C = US	205154B777EDC55A5146585A5E54E054A70BE4AAD3B85D02318DA27BF807ADF1	7C53B5DF79135D9AF6195E F6BB73AB98C2C89950B892 B192DFFD784DB925A41C	10/21/2015	10/18/2025
CN = Amazon OU = Server CA 4A O = Amazon C = US	7BED29276ACBED9F176F38BBA3A67CE5815B5CBF1522C7BB59ECD86B09E16ED2	17708DFF2B7FAEC9CB1B52 15EBB2421D97B0543C936F AC9D6E02B92F20E5C707	10/21/2015	10/18/2025

<sup>2</sup> ATS revoked all the Intermediate CA certificates in this table on May 24, 2023.