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Independent Auditor's Report WebTrust for CAs

Amstelveen, 23 December 2020

To the management of Digital Trust LLC:

We have examined the assertion by the management of Digital Trust LLC (hereafter: DigitalTrust) that for its Certification Authority (CA) operations in the United Arab Emirates, throughout the period 1 October 2019 to 30 September 2020 for its infrastructure consisting of the following entities:

Common Name	SHA-256 Hash fingerprint	Type	Status
DigitalTrust Root CA G3	69062701346901A8E73BD846BFD1AE5752D389A857 68DFCB04D6DDEEDC1D6B54 CN=DigitalTrust Root CA G3,O=DigitalTrust L.L.C.,C=AE	Root	Active
DigitalTrust High Assurance CA G3	C1734233C45BCDD1F5EBE41278DF1AEC1C88AC22 C4D15125B8774D43E81EFAE3 CN=DigitalTrust High Assurance CA G3,O=DigitalTrust L.L.C.,C=AE	Intermediate	Active
DigitalTrust Root CA G4	1EEA09E623D764AF6F659141D3E41FBBE5158F9645 801180A1A86CE5DF538B82 CN=DigitalTrust Root CA G4,O=DigitalTrust L.L.C.,C=AE	Root	Active
DigitalTrust High Assurance CA G4	5718E3E84A286B0FA2A0B2DB14E955DF79A7655A1 EB5BE3A86120058196CC13E CN=DigitalTrust High Assurance CA G4,O=DigitalTrust L.L.C.,C=AE	Intermediate	Active
DigitalTrust Assured CA G4	D64C886D9C19E48A83573F12485B4D9A31826B9C2 94941AB1F728E8333F63863 CN=DigitalTrust Assured CA G4,O=DigitalTrust L.L.C.,C=AE	Intermediate	Active
UAE Global Root CA G3	D2DBB1E65DE7FA8E13EF96B954C1E1FEE4349626 A822DE814F11A17C133D808B CN=UAE Global Root CA G3,O=UAE Government,C=AE	Root	Active



Digital Trust LLC

Independent Auditor's Report WebTrust for CAs

Common Name	SHA-256 Hash fingerprint	Type	Status
UAE High Assurance CA G3	B1941C7F78637CF5203A309CF91BC742A615AEEB8 EEDD91D389E6AD170880DC5 CN=UAE High Assurance CA G3,O=UAE Government,C=AE	Intermediate	Active
ICA Root CA G3	2DED99346FF9714C9117E7A9655385D5451DD15352 91F037F28C65CA2ABA89A3 CN=ICA Root CA G3,O=UAE Government,C=AE	Intermediate	Active
ICA Mobile CA G3	46C142AA6067BC1746D65D18992E1B0043033B1DF EAF6BA3B5EF3C826D9E9C57 CN=ICA Mobile CA G3,O=UAE Government,C=AE	Intermediate	Active
UAE Global Root CA G4	0791529BB8DED6D1CF7A48683275668F858B5A0110 1A335BC7722AE37B743F36 CN=UAE Root CA G4,O=UAE Government,C=AE	Root	Active
UAE High Assurance CA G4	983F6BF8F365034A8F0714298F535A54F9FA2B4E06 92A7ACDC5B83DF01F4058D CN=UAE High Assurance CA G4,O=UAE Government,C=AE	Intermediate	Active
UAE Assured CA G4	CCBBAF01BCC4815EF94CAD5A87F0BD4931CB693B F1BFA4E5AF93FA241078E9D8 CN=UAE Assured CA G4,O=UAE Government,C=AE	Intermediate	Active
ICA Root CA G4	5108E4F77552AF09C622443CA250F7DB96E00C09E9 E88EF25F152C5A9017CCD8 CN=ICA Root CA G4,O=UAE Government,C=AE	Intermediate	Active
ICA Mobile CA G4	6EBCA8499B2CF2D57380A72F204CAB8D2BB4C942 ECC8F75A7900E9105A069619 CN=ICA Mobile CA G4,O=UAE Government,C=AE	Intermediate	Active
ICA Qualified CA G4	B3699BF570EFE098C7DDD841779210A0A7109614E5 B8349DD9D976E7DBDE2D53 CN=ICA Qualified CA G4,O=UAE Government,C=AE	Intermediate	Active
DarkMatter Root CA G3	4B3F646CD878C2B0659A727E0EB8780E5010ECEC0 3E2EF5E679880E265D486A3 CN=DarkMatter Root CA G3,O=DarkMatter L.L.C.,C=AE	Root	Active
	E68729013A50404DC1BAF7127B3D3C98A8FF392B7 35D0B1140858D5B91C3BE65	Root	Active



Digital Trust LLC

Independent Auditor's Report WebTrust for CAs

Common Name	SHA-256 Hash fingerprint	Type	Status
DM X1 High Assurance CA G3	BB71A7881B6E7A2F2B81F57C5DC9C9B8C5F2C8899 EEB820B55D675467CC01D8D CN=DM X1 High Assurance CA G3,O=DarkMatter LLC,C=AE	Intermediate	Active
DarkMatter Root CA G4	319A7F79258C33992B6BA277005AD3EA1802D899A9 9E42CD541750A4B4CC7CCD CN=DarkMatter Root CA G4,O=DarkMatter L.L.C.,C=AE	Root	Active
	515869A435D6D47D3EB8F38D6F9198EC83F2A56AD 31CC1AEDE4F7B89DA69E4BF	Root	Active
DM X1 High Assurance CA G4	AB73ACF37C85B6F737D99E054863C29C0A583B06A F3656D21CA6E3B318D48CF7 CN=DM X1 High Assurance CA G4,O=DarkMatter LLC,C=AE	Intermediate	Active
DM X1 Assured CA G4	4C42102557C4F2840901E87F6AF1EA6CFB5A6E8EB 8BC160D1FF4D244AA957631 CN=DM X1 Assured CA G4,O=DarkMatter LLC,C=AE	Intermediate	Active
DarkMatter High Assurance CA	3AE699D94E8FEBDACB86D4F90D40903333478E65E 0655C432451197E33FA07F2 CN=DarkMatter High Assurance CA,O=DarkMatter LLC,C=AE	Intermediate	Retired (July 2020)
DarkMatter Secure CA	A25A19546819D048000EF9C6577C4BCD8D2155B1E 4346A4599D6C8B79799D4A1 CN=DarkMatter Secure CA,O=DarkMatter LLC,C=AE	Intermediate	Retired (July 2020)
DarkMatter Assured CA	D8888F4A84F74C974DFFB573A1BF5BBBACD1713B9 05096F8EB015062BF396C4D CN=DarkMatter Assured CA,O=DarkMatter LLC,C=AE	Intermediate	Retired (July 2020)



Digital Trust LLC

Independent Auditor's Report WebTrust for CAs

DigitalTrust has:

- disclosed its business, key lifecycle management, certificate life cycle management and CA environment control practices in its Certificate Practice Statement v1.12 of April 2020 on <https://ca.digitaltrust.ae/CPS/index.html>
- maintained effective controls to provide reasonable assurance that:
 - DigitalTrust's Certification Practice Statement is consistent with its Certificate Policy – the UAE National Root Certification Authority Certificate Policy, version 1.5, dated February 2020.
 - DigitalTrust 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 DigitalTrust – note that for this audit that meant we looked at the CAs whose Common Name starts with *DarkMatter* and those whose Common Name starts with *DigitalTrust*); 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 - May 2019](#).

The management of DigitalTrust is responsible for its assertion. 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 and, accordingly, included:

- obtaining an understanding of DigitalTrust's key and certificate life cycle management business and its controls 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 development, maintenance and operation of systems integrity;
- selectively testing transactions executed in accordance with disclosed key and certificate lifecycle management business practices;
- testing and evaluating the operating effectiveness of the controls; and
- performing such other procedures as we considered necessary in the circumstances.

We believe that our examination provides a reasonable basis for our opinion.



Digital Trust LLC

Independent Auditor's Report WebTrust for CAs

The relative effectiveness and significance of specific controls at DigitalTrust 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, DigitalTrust'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 1 October 2019 to 30 September 2020, DigitalTrust management's assertion as referred to 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 DigitalTrust's services beyond those covered by the WebTrust for Certification Authorities Criteria, or the suitability of any of DigitalTrust's services for any customer's intended purpose.

DigitalTrust'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.

On behalf of KPMG Advisory N.V.,
Amstelveen, 23 December 2020

drs. ing. R.F. Koorn RE CISA
Partner

**DigitalTrust MANAGEMENT’S ASSERTION as to
its Disclosure of its Business Practices and its Controls
over its Certification Authority Operations
during the period from 1 October 2019 to 30 September 2020**

23 December 2020

Digital Trust LLC, a company under the United Arabic Emirates law, (hereafter: DigitalTrust), provides the following Certification Authority (CA) services:

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

Its public infrastructure consists of the following entities

Common Name	SHA-256 Hash fingerprint	Type	Status
DigitalTrust Root CA G3	69062701346901A8E73BD846BFD1AE5752D389A85768D FCB04D6DDEEDC1D6B54 CN=DigitalTrust Root CA G3,O=DigitalTrust L.L.C.,C=AE	Root	Active
DigitalTrust High Assurance CA G3	C1734233C45BCDD1F5EBE41278DF1AEC1C88AC22C4D 15125B8774D43E81EFAE3 CN=DigitalTrust High Assurance CA G3,O=DigitalTrust L.L.C.,C=AE	Intermediate	Active
DigitalTrust Root CA G4	1EEA09E623D764AF6F659141D3E41FBBE5158F9645801 180A1A86CE5DF538B82 CN=DigitalTrust Root CA G4,O=DigitalTrust L.L.C.,C=AE	Root	Active
DigitalTrust High Assurance CA G4	5718E3E84A286B0FA2A0B2DB14E955DF79A7655A1EB5 BE3A86120058196CC13E CN=DigitalTrust High Assurance CA G4,O=DigitalTrust L.L.C.,C=AE	Intermediate	Active
DigitalTrust Assured CA G4	D64C886D9C19E48A83573F12485B4D9A31826B9C29494 1AB1F728E8333F63863 CN=DigitalTrust Assured CA G4,O=DigitalTrust L.L.C.,C=AE	Intermediate	Active

Common Name	SHA-256 Hash fingerprint	Type	Status
UAE Global Root CA G3	D2DBB1E65DE7FA8E13EF96B954C1E1FEE4349626A822 DE814F11A17C133D808B CN=UAE Global Root CA G3,O=UAE Government,C=AE	Root	Active
UAE High Assurance CA G3	B1941C7F78637CF5203A309CF91BC742A615AEEB8EED D91D389E6AD170880DC5 CN=UAE High Assurance CA G3,O=UAE Government,C=AE	Intermediate	Active
ICA Root CA G3	2DED99346FF9714C9117E7A9655385D5451DD1535291F0 37F28C65CA2ABA89A3 CN=ICA Root CA G3,O=UAE Government,C=AE	Intermediate	Active
ICA Mobile CA G3	46C142AA6067BC1746D65D18992E1B0043033B1DFEAF 6BA3B5EF3C826D9E9C57 CN=ICA Mobile CA G3,O=UAE Government,C=AE	Intermediate	Active
UAE Global Root CA G4	0791529BB8DED6D1CF7A48683275668F858B5A01101A3 35BC7722AE37B743F36 CN=UAE Root CA G4,O=UAE Government,C=AE	Root	Active
UAE High Assurance CA G4	983F6BF8F365034A8F0714298F535A54F9FA2B4E0692A7 ACDC5B83DF01F4058D CN=UAE High Assurance CA G4,O=UAE Government,C=AE	Intermediate	Active
UAE Assured CA G4	CCBBAF01BCC4815EF94CAD5A87F0BD4931CB693BF1 BFA4E5AF93FA241078E9D8 CN=UAE Assured CA G4,O=UAE Government,C=AE	Intermediate	Active
ICA Root CA G4	5108E4F77552AF09C622443CA250F7DB96E00C09E9E88 EF25F152C5A9017CCD8 CN=ICA Root CA G4,O=UAE Government,C=AE	Intermediate	Active
ICA Mobile CA G4	6EBCA8499B2CF2D57380A72F204CAB8D2BB4C942ECC 8F75A7900E9105A069619 CN=ICA Mobile CA G4,O=UAE Government,C=AE	Intermediate	Active
ICA Qualified CA G4	B3699BF570EFE098C7DDD841779210A0A7109614E5B83 49DD9D976E7DBDE2D53 CN=ICA Qualified CA G4,O=UAE Government,C=AE	Intermediate	Active
DarkMatter Root CA G3	4B3F646CD878C2B0659A727E0EB8780E5010ECEC03E2 EF5E679880E265D486A3 CN=DarkMatter Root CA G3,O=DarkMatter L.L.C.,C=AE	Root	Active
	E68729013A50404DC1BAF7127B3D3C98A8FF392B735D 0B1140858D5B91C3BE65	Root	Active
DM X1 High Assurance CA G3	BB71A7881B6E7A2F2B81F57C5DC9C9B8C5F2C8899EE B820B55D675467CC01D8D CN=DM X1 High Assurance CA G3,O=DarkMatter LLC,C=AE	Intermediate	Active
DarkMatter Root CA G4	319A7F79258C33992B6BA277005AD3EA1802D899A99E4 2CD541750A4B4CC7CCD CN=DarkMatter Root CA G4,O=DarkMatter L.L.C.,C=AE	Root	Active
	515869A435D6D47D3EB8F38D6F9198EC83F2A56AD31C C1AEDE4F7B89DA69E4BF	Root	Active
DM X1 High Assurance CA G4	AB73ACF37C85B6F737D99E054863C29C0A583B06AF36 56D21CA6E3B318D48CF7 CN=DM X1 High Assurance CA G4,O=DarkMatter LLC,C=AE	Intermediate	Active

Common Name	SHA-256 Hash fingerprint	Type	Status
DM X1 Assured CA G4	4C42102557C4F2840901E87F6AF1EA6CFB5A6E8EB8BC 160D1FF4D244AA957631 CN=DM X1 Assured CA G4,O=DarkMatter LLC,C=AE	Intermediate	Active
DarkMatter High Assurance CA	3AE699D94E8FEBDACB86D4F90D40903333478E65E065 5C432451197E33FA07F2 CN=DarkMatter High Assurance CA,O=DarkMatter LLC,C=AE	Intermediate	Retired (Jul 2020)
DarkMatter Secure CA	A25A19546819D048000EF9C6577C4BCD8D2155B1E4346 A4599D6C8B79799D4A1 CN=DarkMatter Secure CA,O=DarkMatter LLC,C=AE	Intermediate	Retired (Jul 2020)
DarkMatter Assured CA	D8888F4A84F74C974DFFB573A1BF5BBBACD1713B905 096F8EB015062BF396C4D CN=DarkMatter Assured CA,O=DarkMatter LLC,C=AE	Intermediate	Retired (Jul 2020)

The management of DigitalTrust is responsible for establishing and maintaining effective controls over its CA operations, including its CA business practices disclosure on its website, 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 provide only reasonable assurance with respect to DigitalTrust’s Certificate Authority operations. Furthermore, because of changes in conditions, the effectiveness of controls may vary over time.

The management of DigitalTrust has assessed the design of controls over its CA Services. Based on that assessment, in DigitalTrust management’s opinion, in providing its Certification Authority (CA) services at Abu Dhabi and Dubai, United Arab Emirates, throughout the period 1 October 2019 to 30 September 2020, DigitalTrust has

- Disclosed its business, key lifecycle management, certificate lifecycle management and CA environmental control practices in its Certification Practice Statement, version 1.12, dated April 2020 on the website of Digital Trust at <https://ca.digitaltrust.ae/CPS/index.html>, and
- maintained effective controls to provide reasonable assurance that
 - Digital Trust’s Certification Practice Statement is consistent with its Certificate Policy – the UAE National Root Certification Authority Certificate Policy, version 1.5, dated February 2020 on the website of Digital Trust at <https://ca.digitaltrust.ae/CPS/index.html>
- maintained effective controls to provide reasonable assurance that
 - the integrity of keys and certificates it manages is established and protected throughout their life cycles;
 - the integrity of subscriber keys and certificates it manages is established and protected throughout their life cycles;

- Subscriber information is properly authenticated (for the registration activities performed by DigitalTrust); 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 - May 2019](#) including the following

CA BUSINESS PRACTICES DISCLOSURE

- Certification 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
- Systems Development and Maintenance
- Business Continuity Management
- Monitoring and Compliance
- Audit Logging

CA KEY LIFE CYCLE MANAGEMENT CONTROLS

- CA Key Generation
- CA Key Storage, Backup and Recovery
- CA Public Key Distribution
- CA Key Usage
- CA Key Archival and Destruction
- CA Key Compromise
- CA Cryptographic Hardware Life Cycle Management
- CA Key Escrow (if applicable)

SUBSCRIBER KEY LIFE CYCLE MANAGEMENT CONTROLS

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

CERTIFICATE LIFE CYCLE MANAGEMENT CONTROLS

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

SUBORDINATE CA CERTIFICATE LIFE CYCLE MANAGEMENT CONTROLS

- Subordinate CA Certificate Life Cycle Management

For approval

A handwritten signature in black ink, appearing to be 'SFA', with a horizontal line drawn underneath it.

Scott Rea
Head of DigitalTrust,
Digital Trust LLC



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