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Independent Auditor's Report

Amstelveen, 17 December 2019

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 2018 to 30 September 2019 for its infrastructure consisting of the following entities:

Common Name	SHA256 hash / DN
DigitalTrust Root CA G3	69062701346901A8E73BD846BFD1AE5752D389A85768DFCB04 D6DDEEDC1D6B54 CN=DigitalTrust Root CA G3, O=DigitalTrust L.L.C., C=AE
DigitalTrust High Assurance CA G3	C1734233C45BCDD1F5EBE41278DF1AEC1C88AC22C4D15125 B8774D43E81EFAE3 CN=DigitalTrust High Assurance CA G3, O=DigitalTrust L.L.C., C=AE
DigitalTrust Root CA G4	1EEA09E623D764AF6F659141D3E41FBBE5158F9645801180A1 A86CE5DF538B82 CN=DigitalTrust Root CA G4, O=DigitalTrust L.L.C., C=AE
DigitalTrust High Assurance CA G4	5718E3E84A286B0FA2A0B2DB14E955DF79A7655A1EB5BE3A8 6120058196CC13E CN=DigitalTrust High Assurance CA G4, O=DigitalTrust L.L.C., C=AE
DigitalTrust Assured CA G4	D64C886D9C19E48A83573F12485B4D9A31826B9C294941AB1 F728E8333F63863 CN=DigitalTrust Assured CA G4, O=DigitalTrust L.L.C., C=AE
UAE Global Root CA G3	D2DBB1E65DE7FA8E13EF96B954C1E1FEE4349626A822DE81 4F11A17C133D808B CN=UAE Global Root CA G3, O=UAE Government, C=AE
	0A9A4013AFC05650945CCA63B92A6B265857CF403403DEA52 E0E68CC4E1BF574 CN=UAE Global Root CA G3, O=UAE Government, C=AE
UAE High Assurance CA G3	B1941C7F78637CF5203A309CF91BC742A615AEEB8EEDD91D 389E6AD170880DC5 CN=UAE High Assurance CA G3, O=UAE Government, C=AE



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Common Name	SHA256 hash / DN
DigitalX1 High Assurance CA G3	FDD7C3DB9D64509E008360402FCB1BE1C0CBE220D3D282AF 1F9B3D8E19B3E4A4 CN=DigitalX1 High Assurance CA G3, O=DarkMatter LLC, C=AE
ICA Root CA G3	2DED99346FF9714C9117E7A9655385D5451DD1535291F037F2 8C65CA2ABA89A3 CN=ICA Root CA G3, O=UAE Government, C=AE
	06AC79A8950254E62DA4668A4CA3D7770AD47AE665DE326E6 C544BDCB40C6E9D CN=ICA Root CA G3, O=UAE Government, C=AE
	29245F81323631071E9C46BD0EC94F2623D8A5AABCC51DECF 9EEC19C1A79DC3F CN=ICA Root CA G3, O=UAE Government, C=AE
ICA Mobile CA G3	46C142AA6067BC1746D65D18992E1B0043033B1DFEAF6BA3B 5EF3C826D9E9C57 CN=ICA Mobile CA G3, O=UAE Government, C=AE
	CA439FB911D65D521DDBF4A9EBF5B616E1FF68DBF5459621 C0C0022E32F48F32 CN=ICA Mobile CA G3, O=UAE Government, C=AE
UAE Global Root CA G4	0791529BB8DED6D1CF7A48683275668F858B5A01101A335BC7 722AE37B743F36 CN=UAE Global Root CA G4, O=UAE Government, C=AE
	3E83A6C780B4C5B87538AD2E43A203708FF7FF29BEDC7B206 26BF7C009199C0A CN=UAE Global Root CA G4, O=UAE Government, C=AE
UAE High Assurance CA G4	983F6BF8F365034A8F0714298F535A54F9FA2B4E0692A7ACDC 5B83DF01F4058D CN=UAE High Assurance CA G4, O=UAE Government, C=AE
UAE Assured CA G4	CCBBAF01BCC4815EF94CAD5A87F0BD4931CB693BF1BFA4E 5AF93FA241078E9D8 CN=UAE Assured CA G4, O=UAE Government, C=AE
DigitalX1 High Assurance CA G4	F2B781704418CC6D4F200F74F542C845C91AC77C82F088912A A1A3D3B307F61F CN=DigitalX1 High Assurance CA G4, O=DarkMatter LLC, C=AE
DigitalX1 Assured CA G4	357F52F81E5DAF02A01A50A7737B502F77067291516305B0ED 6750F2A0388C32 CN=DigitalX1 Assured CA G4, O=DarkMatter LLC, C=AE



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Common Name	SHA256 hash / DN
ICA Root CA G4	5108E4F77552AF09C622443CA250F7DB96E00C09E9E88EF25F152C5A9017CCD8 CN=ICA Root CA G4, O=UAE Government, C=AE
	DCA38D15221B403B01A3838AC6A164143CEBDFD55F89A62F784886EAA3FD6D4D CN=ICA Root CA G4, O=UAE Government, C=AE
	13A49CD0109C45D95798831AD50DEFADB2AA5A836C181E11FB213391690A5499 CN=ICA Root CA G4, O=UAE Government, C=AE
ICA Mobile CA G4	6EBCA8499B2CF2D57380A72F204CAB8D2BB4C942ECC8F75A7900E9105A069619 CN=ICA Mobile CA G4, O=UAE Government, C=AE
ICA Qualified CA G4	B3699BF570EFE098C7DDD841779210A0A7109614E5B8349DD9D976E7DBDE2D53 CN=ICA Qualified CA G4, O=UAE Government, C=AE
	992F3EDCACC996BAB0C2F229D83C620F99DB2A49710C40EA A13CCA11339A1836 CN=ICA Qualified CA G4, O=UAE Government, C=AE
DarkMatter Root CA G3	4B3F646CD878C2B0659A727E0EB8780E5010ECEC03E2EF5E679880E265D486A3 CN=DarkMatter Root CA G3, O=DarkMatter L.L.C., C=AE
	E68729013A50404DC1BAF7127B3D3C98A8FF392B735D0B1140858D5B91C3BE65 CN=DarkMatter Root CA G3, O=DarkMatter L.L.C., C=AE
DM X1 High Assurance CA G3	BB71A7881B6E7A2F2B81F57C5DC9C9B8C5F2C8899EEB820B55D675467CC01D8D CN=DM X1 High Assurance CA G3, O=DarkMatter LLC, C=AE
	89D3BF92914827AFEC6216DE9770AC437EE8C5F227B3B29820A9EF33551DBFC6 CN=DM X1 High Assurance CA G3, O=DarkMatter LLC, C=AE
	E6A41FF535AB87453D5FC4E7C818981479186595E00594B68A08EFECBBCDB8EE CN=DM X1 High Assurance CA G3, O=DarkMatter LLC, C=AE
DarkMatter Root CA G4	319A7F79258C33992B6BA277005AD3EA1802D899A99E42CD541750A4B4CC7CCD CN=DarkMatter Root CA G4, O=DarkMatter L.L.C., C=AE
	515869A435D6D47D3EB8F38D6F9198EC83F2A56AD31CC1AEDE4F7B89DA69E4BF CN=DarkMatter Root CA G4, O=DarkMatter L.L.C., C=AE



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Common Name	SHA256 hash / DN
DM X1 High Assurance CA G4	AB73ACF37C85B6F737D99E054863C29C0A583B06AF3656D21 CA6E3B318D48CF7 CN=DM X1 High Assurance CA G4, O=DarkMatter LLC, C=AE
	2744269BE81D480C51B21C1C26B7769A90564E6DA0AE44246 DD779CCAC70DA34 CN=DM X1 High Assurance CA G4, O=DarkMatter LLC, C=AE
	0B00D454B57F686976AD85CE6303C6A40FD5B80793CA7AC50 F811E55EAF68C83 CN=DM X1 High Assurance CA G4, O=DarkMatter LLC, C=AE
DM X1 Assured CA G4	4C42102557C4F2840901E87F6AF1EA6CFB5A6E8EB8BC160D1 FF4D244AA957631 CN=DM X1 Assured CA G4, O=DarkMatter LLC, C=AE
	10FEEE3F39973DBF0A06BE653578297D8A875CC3A75A557F2 8598D59D26714B4 CN=DM X1 Assured CA G4, O=DarkMatter LLC, C=AE
	546012EE72C06F777BBFC05AFE4C53E373762ABAF41F8EE02 0457DB159058501 CN=DM X1 Assured CA G4, O=DarkMatter LLC, C=AE
DarkMatter Audit CA	32BEADA3345287810EA32080D4F12834971C90E683FF289B2C ACDD55613DC35E CN=DarkMatter Audit CA, O=DarkMatter LLC, C=AE
DarkMatter High Assurance CA	3AE699D94E8FEBDACB86D4F90D40903333478E65E0655C432 451197E33FA07F2 CN=DarkMatter High Assurance CA, O=DarkMatter LLC, C=AE
	E0A670F4F1057E9179E9DB45E333CE37E3EE31C3499F1C584 A587BD9A5F53640 CN=DarkMatter High Assurance CA, O=DarkMatter LLC, C=AE
DarkMatter Secure CA	A25A19546819D048000EF9C6577C4BCD8D2155B1E4346A4599 D6C8B79799D4A1 CN=DarkMatter Secure CA, O=DarkMatter LLC, C=AE
	A019811E4369CA4C62AAA80A1549613E60F6C5CED383AF9D7 9DF8F8F193F1DFE CN=DarkMatter Secure CA, O=DarkMatter LLC, C=AE
DarkMatter Assured CA	D8888F4A84F74C974DFFB573A1BF5BBBACD1713B905096F8E B015062BF396C4D CN=DarkMatter Assured CA, O=DarkMatter LLC, C=AE
	60F066DC78A4E2E929A1C8ED102EDB707DF03181F82FDF50D 53A52DAC355C65B CN=DarkMatter Assured CA, O=DarkMatter LLC, C=AE



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DigitalTrust has:

- disclosed its business, key lifecycle management, certificate life cycle management and CA environment control practices in its Certificate Practice Statement v1.11 of May 2019 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 1.3, dated December 2018.
 - 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 2.1](#).

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.



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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 2018 to 30 September 2019, 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 2.1.

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, 17 December 2019

Originally signed by:

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