



Baker Tilly MH Consulting Sdn Bhd
(1068792-P)
C-10-07, Sunway Nexis,
No.1, Jalan PJU 5/1, Kota Damansara
47810 Petaling Jaya, Selangor, Malaysia

T: +603 6145 0889

F: +603 6158 9923

www.bakertilly.my

Independent Assurance Report

To the Management of MSC Trustgate.com Sdn. Bhd:

Scope

We have been engaged, in a reasonable assurance engagement, to report on MSC Trustgate.com Sdn. Bhd. ("MSC Trustgate-CA") management's assertion below that for its Certification Authority ("CA") operations at Suite 2-9, Level 2, Block 4801 CBD Perdana, Jalan Perdana, 63000 Cyberjaya, Selangor Darul Ehsan, Malaysia, throughout the period 1st September 2021 to 31st August 2022 for its CAs as enumerated in Appendix A – List of Root and Subordinate CAs in Scope, MSC Trustgate-CA has:

- disclosed its business, key lifecycle management, certificate lifecycle management, and CA environmental control practices in its:
 - MSC Trustgate.com Certificate Practice Statement (CPS) version 5.2 dated 29th April 2022 (www.msctrustgate.com/tgcps) ; and
 - MSC Trustgate.com Certificate Policy (CP) version 4.1 dated 15th March 2022 (www.msctrustgate.com/tgcp)
- maintained effective controls to provide reasonable assurance that:
 - MSC Trustgate-CA's Certificate Practice Statement is consistent with its Certificate Policy; and
 - MSC Trustgate-CA provides its services in accordance with its Certificate Policy and Certificate 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 MSC Trustgate-CA; 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 authorised individuals;
 - the continuity of key and certificate management operations is maintained; and
 - CA Systems development, maintenance, and operations are properly authorised and performed to maintain CA systems Integrity

in accordance with the WebTrust Principles and Criteria for Certification Authorities v2.2.2 (available [here](#)).

MSC Trustgate-CA does not escrow its CA keys and does not provide certificate suspension services. Accordingly, our procedures did not extend to controls that would address those criteria.

Certification Authority's Responsibilities

MSC Trustgate-CA's 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 v2.2.2.

Our Independence and Quality Control

We have complied with the independence and other ethical requirements of the *Code of Ethics for Professional Accountants* issued by the International Ethics Standards Board for Accountants, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality, and professional behaviour.

The firm applies International Standard on Quality Control 1, *Quality Control for Firms that Perform Audits and Reviews of Historical Financial Information, and Other Assurance and Related Services, Engagements* and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

Practitioner's Responsibilities

Our responsibility is to express an opinion on management's assertion based on our procedures. We conducted our procedures in accordance with International Standard on Assurance Engagements 3000, *Assurance Engagements Other than Audits or Reviews of Historical Financial Information*, issued by the International Auditing and Assurance Standards Board. This standard requires that we plan and perform our procedures to obtain reasonable assurance about whether, in all material respects, management's assertion is fairly stated, and, accordingly, included:

- obtaining an understanding of MSC Trustgate-CA's key and certificate life cycle management business practices 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 life cycle management operations, and over development, maintenance and operation of systems integrity;
- selectively testing transactions executed in accordance with disclosed key and certificate life cycle 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 the evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

The relative effectiveness and significance of specific controls at MSC Trustgate-CA 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.

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 unauthorised 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.

Opinion

In our opinion, throughout the period 1st September 2021 to 31st August 2022, MSC Trustgate-CA's management assertion, as referred to above, is fairly stated, in all material respects, in accordance with the WebTrust Principles and Criteria for Certification Authorities v2.2.2.

This report does not include any representation as to the quality of MSC Trustgate-CA's services beyond those covered by the WebTrust Principles and Criteria for Certification Authorities v2.2.2, nor the suitability of any of MSC Trustgate-CA services for any customer's intended purpose.

Use of the WebTrust Seal

MSC Trustgate-CA's use of the WebTrust for Certification Authorities Seal constitutes a symbolic representation of the contents of this report and is not intended, nor should it be construed, to update this report or provide any additional assurance.

Baker Tilly MH Consulting Sdn Bhd
Kuala Lumpur, Malaysia
7th November 2022

MSC Trustgate-CA Management Assertion

MSC Trustgate.com Sdn. Bhd. (“MSC Trustgate-CA”) operates the Certification Authority (“CA”) services outlined in Appendix A – List of Root and Subordinate CAs in Scope, 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 cross-certification

The Management of MSC Trustgate-CA is responsible for establishing and maintaining effective controls over its CA operations, including its CA business practices disclosure on its website (www.msctrustgate.com/repository.php), 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 MSC Trustgate-CA’s operations. Furthermore, because of changes in conditions, the effectiveness of controls may vary over time.

MSC Trustgate-CA management has assessed its disclosures of its certificate practices and controls over its CA services. Based on that assessment, in MSC Trustgate-CA management’s opinion, in providing its Certification Authority services at Suite 2-9, Level 2, Block 4801 CBD Perdana, Jalan Perdana, 63000 Cyberjaya Selangor Darul Ehsan, Malaysia throughout the period 1st September 2021 to 31st August 2022, MSC Trustgate-CA has:

- disclosed its business, key life cycle management, certificate lifecycle management, and CA environmental control practices in its:
 - MSC Trustgate.com Certificate Practice Statement (CPS) version 5.2 dated 29th April 2022 (www.msctrustgate.com/tgcps) ; and
 - MSC Trustgate.com Certificate Policy (CP) version 4.1 dated 15th March 2022 (www.msctrustgate.com/tgcp)
- maintained effective controls to provide reasonable assurance that:
 - MSC Trustgate-CA’s Certificate Practice Statement is consistent with its Certificate Policy; and
 - MSC Trustgate-CA provides its services in accordance with its Certificate Policy and Certificate 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 MSC Trustgate-CA; 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 authorised individuals;
 - the continuity of key and certificate management operations is maintained; and
 - CA systems development, maintenance, and operations are properly authorised and performed to maintain CA systems Integrity

in accordance with the WebTrust Principles and Criteria for Certification Authorities v2.2.2 (available [here](#)), including the following:

- CA Business Practices Disclosure
 - Certificate Practice Statement (CPS)
 - Certificate Policy (CP)
- CA Business Practices Management
 - Certification Policy Management
 - Certificate Practice Statement Management
 - CP and CPS Consistency
- CA Environmental Controls
 - Security Management
 - Asset Classification and Management
 - Personnel Security
 - Physical & Environmental Security
 - Operations Management
 - System Access Management
 - System Development and Maintenance
 - 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 and Destruction
 - CA Key Compromise
 - CA Cryptographic Hardware Lifecycle Management
- Subscriber Key Lifecycle Management Controls
 - CA-Provided Subscriber Key Generation Services
 - CA-Provided Subscriber Key Storage and Recovery Services

- Certificate Lifecycle Management Controls
 - Subscriber Registration
 - Certificate Renewal
 - Certificate Rekey
 - Certificate Issuance
 - Certificate Distribution
 - Certificate Revocation
 - Certificate Validation

- Subordinate CA Certificate Lifecycle Management Controls
 - Subordinate CA Certificate Lifecycle Management

MSC Trustgate-CA does not escrow its CA keys and does not provide certificate suspension services. Accordingly, our assertion does not extend to controls that would address those criteria.

Lo Nyan Tjing

Chief Executive Officer
MSC Trustgate.com Sdn. Bhd.
7th November 2022

Appendix A – List of Root and Subordinate CAs in Scope

1.1 Self-Signed Root CAs

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
1	1	CN = Trustgate Class 1 Root Certificate Authority O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate Class 1 Root Certificate Authority O = MSC Trustgate.com Sdn. Bhd. C = MY	1B5ED8F CA65CFC DEB0CC0 0E12902 3E3A	RSA	2048 bit	sha256WithRSAEncryption	Friday, 6 July, 2012 00:00:00	Saturday, 5 July 2012 23:59:59	0B6BD8465BDE2DE44E9DD 4BE71DEA7F35766FCC3	B0FE225E8C0D51FD4AD509C3FD 03B34625C0453FD51335436B6B1 136AED8805D
2	2	CN = Trustgate Class 2 Root Certificate Authority O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate Class 2 Root Certificate Authority O = MSC Trustgate.com Sdn. Bhd. C = MY	0A8BC40 60F5A6C D34D078 05DA007 ABF5	RSA	2048 bit	sha256WithRSAEncryption	Friday, 6 July, 2012 00:00:00	Saturday, 5 July 2012 23:59:59	2A3D3B9F9D04906AE1012 4C53951D15B95705166	E2026B5646F49F9671D4318E090 94A23CE34C94B5410F19B39D49 0A761C A65D1
3	3	CN = Trustgate Class 3 Root Certificate Authority O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate Class 3 Root Certificate Authority O = MSC Trustgate.com Sdn. Bhd. C = MY	703B113 DCDB38E 30F4E57 DAC18A5 310F	RSA	2048 bit	sha256WithRSAEncryption	Friday, 6 July, 2012 00:00:00	Saturday, 5 July 2012 23:59:59	170EA652A703B53EE4D412 F96C18D6B407DD8A77	A62C9790F2D112238FE24C35242 2EAB29C34C3EE5698EE575CDF1 7018888 3DE9

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
4	4	CN = Trustgate RSA Certification Authority OU = Malaysia Licensed CA No LPBP-2/2010 (1) O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate RSA Certification Authority OU = Malaysia Licensed CA No LPBP-2/2010 (1) O = MSC Trustgate.com Sdn. Bhd. C = MY	1F61B6A 273937D 89952BC 4AF8E86 050E	RSA	4096 bit	sha256WithRSAEncryption	Monday, 19 December, 2016 00:00:00	Wednesday, 18 December, 2041 23:59:59	682D2C5F3EE2D6832A415 6E3492CB822199A34F4	DC7ACA56E0921E3C54E7DA854 A13CDE917B3EEC386B8E9D5920 1F812E4E9B40C
5	5	CN = Trustgate Time Stamping Authority CA (ECC) OU = Malaysia Licensed CA No LPBP-2/2010 (1) O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate Time Stamping Authority CA (ECC) OU = Malaysia Licensed CA No LPBP-2/2010 (1) O = MSC Trustgate.com Sdn. Bhd. C = MY	51E8025 1AD3E7F F755CAC 506DDB6 4BDE	ECC	384 bit	ecdsa-with-SHA384	Monday, 19 December, 2016 00:00:00	Wednesday, 18 December, 2041 23:59:59	53FCEA6B6F9221160A1F72 43DDE349FEC433E0E8	FC794E7830873926C16824CBAC 867F8EAC7CF28EFC9FF4A465B77 E6FD426 10B7
6	6	CN = Trustgate Time Stamping Authority CA OU = Malaysia Licensed CA No LPBP-2/2010 (1) O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate Time Stamping Authority CA OU = Malaysia Licensed CA No LPBP-2/2010 (1) O = MSC Trustgate.com Sdn. Bhd. C = MY	4139BAC 7F7F4500 5DCD7F7 6ADEBF1 7B1	RSA	4096 bit	sha256WithRSAEncryption	Monday, 19 December, 2016 00:00:00	Wednesday, 18 December, 2041 23:59:59	48DC4E36DE951AAB57394 F5335EB341AAE9ACA09	CF74F634C21A6AA376FD264E31 EAB031845FFD048D20F9C41AC7 3C8ED5 BC4737

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
7	7	CN = MyTrust Class 1 ECC Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MyTrust Class 1 ECC Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	6C82F07 8641198 04858F4 DAF4C92 EAE1	ECC	384 bit	ecdsa-with-SHA384	Monday, 28 August, 2017 00:00:00 AM	Thursday, 27 August, 2042 23:59:59	DDBE109FB5A254C034419 F76DB72D2663DC74589	9819A77417A5DF8880C1E52D5F 4D72C6E5924460CE568C2DE5AD 6199986A8D6E
8	8	CN = MyTrust Class 2 ECC Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MyTrust Class 2 ECC Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	601D503 52FFCA3 C4ABD91 C3F3252 2933	ECC	384 bit	ecdsa-with-SHA384	Monday, 28 August, 2017 00:00:00 AM	Thursday, 27 August, 2042 23:59:59	9173B201A3D2B94012C66 30DDFF5D58E7319B196	97351977E28FD6602FE1ADAE58 E8994212CB02D995F866D2F5DC 41D9E94 6B855
9	9	CN = MyTrust Class 3 ECC Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MyTrust Class 3 ECC Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	690E6C98FB BF D993A53168 FE 8CDED62B	ECC	384 bit	ecdsa-with-SHA384	Monday, 28 August, 2017 00:00:00	Thursday, 27 August, 2042 23:59:59	130885330660934C9BD336 95A6C3D775FD8AD9DE	98B850DD9764C6188AAF4E8A21 909FF52753F228DB84338709901 5393096EBCF
10	10	CN = MyTrust Class 1 RSA Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MyTrust Class 1 RSA Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	4184B33 F54B241 009506A B3A13B6 4071	RSA	2048 bit	sha256WithRSAEncryption	Thursday, 17 August, 2017 00:00:00	Saturday, 16 August, 2042 23:59:59	6A3DCE6C01562D160636D 465C83363FF010E7208	B9476C3FE5B6385FACE73E8B526 5E56F30FFC39E77C9519537C361 DC9640 5787

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
11	11	CN = MyTrust Class 2 RSA Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MyTrust Class 2 RSA Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	01F6E41 A6CECC7 338DC6F B31AD68 A10B	RSA	2048 bit	sha256WithRSAEncryption	Thursday, 17 August, 2017 00:00:00	Saturday, 16 August, 2042 23:59:59	5CE3BD7F944D92CA1B5A7 B424353A60308C50CC2	A788D9F9EBE7648CFED6D8B071 382A30780D9719A802731F066F 59B3212 4A8B3
12	12	CN = MyTrust Class 3 RSA Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MyTrust Class 3 RSA Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	39DFBC8 4A60DF0 C3E40EB A46ED47 722A	RSA	2048 bit	sha256WithRSAEncryption	Thursday, 17 August, 2017 00:00:00	Saturday, 16 August, 2042 23:59:59	B3123898D40163ADB4019 640FF74A3FDB5EB8623	045D810BEE88DF2424608179399 9E41766272F652837D5B9B909E5 7BCBC CD149
13	13	CN=MyTrust Digital ID Root CA OU=MyTrust Gateway O=MSC Trustgate.com Sdn. Bhd C=MY	CN=MyTrust Digital ID Root CA OU=MyTrust Gateway O=MSC Trustgate.com Sdn. Bhd C=MY	68A309B 10AE497 B9A91EA F8B35A5 E87B	ECC	384 bit	ecdsa-with-SHA384	Monday, 26 November 2018, 00:00:00	Wednesday, 25 November 2043, 23:59:59	FC06AAC4B0F749C206B54A 2C646DFD5260C4D937	D21BECEBF35470585672E8F57216 97F71C7CC4D731C4A0FCCDB1A1 8FCB 5691FA
14	14	CN = Trustgate RSA Global Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate RSA Global Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	00c17fdf2 4740cbdd 3e69d2dd 055962c85	RSA	3072 bit	Sha384WithRSAEncryption	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2047 23:59:00	B1E02F97018674843166CAB EBFCFED4BB8120084	D2BE160D6A4391630BCEE932993 E48547C9CABFE21A0B052A60601 C8A266C19E

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
15	15	CN = Trustgate Secure Server Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate Secure Server Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	3336f4583b923409818fcf3577b40ece	RSA	3072 bit	Sha384WithRSAEncryption	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2024 23:59:00	AB604E47E04232B9794441F682AB37EFB9FCB059	A233FA00067C0A31EC80793F6F4623DED687E8FD71241FD560BA292D98AB3737
16	16	CN = Trustgate ID Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate ID Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	12c0c769d716b6395f0386dfd3a4310f	RSA	3072 bit	Sha384WithRSAEncryption	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2024 23:59:00	1623FB16A21D47AEBD2149CEBFAB69A084DEF9	433DB9E222A1EF0AF4F4C4DFAEE76643B9039F1758A13BDFBED36C7290114162
17	17	CN = Trustgate MPKI Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate MPKI Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	009A7ED31D3A6D7959FD3840EC3A3085A0	RSA	3072 bit	Sha384WithRSAEncryption	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2024 23:59:00	7B239AF4D4285041C6A92550A1CDABAF213A7F38	075CEA0ADE7133F67F3EB44815A07E6E4865534901FF1400C42A3C6D3123F95A
18	18	CN = Trustgate ECC Global Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate ECC Global Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	00B250E71ACF18397B15316921D33ECC49	ECC	384 bit	ecdsa-with-SHA384	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2024 23:59:00	DEE7A462B667A762DADBB2024F7C6C8B088B6F26	AFF58C68DFA45AF80B7D965545E8DC08221E527C8C1090E41270DD9FE7B523D6
19	19	CN = Trustgate ECC Time Stamping Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate ECC Time Stamping Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	7DBFAA742A870ECD10441F7E239414D3	ECC	384 bit	ecdsa-with-SHA384	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2024 23:59:00	68F7475232F55AA586F9C0EE65349FA46C4F2136	BEFD8058D1CE9482799FD62275A2019A84E47F592E1B618D17E563C6540301A4

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
20	20	CN = Trustgate ECC ID Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate ECC ID Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	5B9D7733C2996 AE55CB BBB2 DE ABEE4F6	ECC	384 bit	ecdsa-with-SHA384	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2024 23:59:00	D06744F750FD6F6D08745648472C70762E93C047	843C2B01DF6A1FDBAF54F7F640F41187F1818A5E429EB457EF627014AF2F5AD6
21	21	CN = Trustgate ECC MPKI Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate ECC MPKI Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	52DFCAFCA5A2F CAC35EBE2E56D FD3A71	ECC	384 bit	ecdsa-with-SHA384	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2024 23:59:00	21A0D0EA2E5CAD02A1C221322992C8E300753770	1110EAA11E493C0E9448985D207DC40B7EE2C83EAF087F10BA172E2AC262F2C5

1.2 Bridge Certificates

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
1	1	CN = Trustgate RSA Global Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate Secure Server Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	1B848F53CD E7C3447A4D 955A6538B041	RSA	3072 bit	Sha384W ithRSAEn ryption	Wednesday, 6 April 2022 00:00:00	Saturday, 4 April 2037 23:59:00	AB604E47E04232B979 4441F682AB37EFB9F CB059	1EA22856E474C9CF5B90F5117E17595 A0FBE7E1AA3D172067676BED130C52CE6
2	2	CN = Trustgate RSA Global Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate ID Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	4439E6140906C 826B709501BEC 8785ED	RSA	3072 bit	Sha384W ithRSAEn ryption	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2037 23:59:00	1623FB16A21D47AEB D2149CEBFABF69A08 4DEFE9	45CD58326CC8D3637C4586717072A384 9AA801B69811639AAE05CD53C1E59BCE
3	3	CN = Trustgate RSA Global Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate MPKI Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	00A9EA80B7D36 E51DD8C6FD9D5 CCBFA616	RSA	3072 bit	Sha384W ithRSAEn ryption	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2037 23:59:00	7B239AF4D4285041C 6A92550A1CDABAF21 3A7F38	8E800BF38414B142440CD175398D29075 C6946F0EC048A02357DCC5BEADEA32C
4	4	CN = Trustgate ECC Global Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate ECC Time Stamping Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	559e48dc4a24dec 8df91fbc00a0f6e97	ECC	384 bit	ecdsa- with- SHA384	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2037 23:59:00	68F7475232F55AA586 F9C0EE65349FA46C4F2 136	27A491B41594F31517130E4B7EA94EB38 C529358E0987E48849E3F9BC8C6D166

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
5	5	CN = Trustgate ECC Global Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate ECC ID Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	53eed85c50effe 9195b5606af10c 569	ECC	384 bit	ecdsa- with- SHA384	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2037 23:59:00	D06744F750FD6F6D0 8745648472C70762E 93C047	FB5EF4B679D073B4D0C4DFA469288A0C 3BB949CFF7699A6141B46E2B1EDAC017
6	6	CN = Trustgate ECC Global Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate ECC MPKI Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	00880e69fe2dbe 15590c75e3a83 f8f330a	ECC	384 bit	ecdsa- with- SHA384	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2037 23:59:00	21A0D0EA2E5CAD02A 1C221322992C8E30075 3770	C1D86D24AAE0EF5FB7070DFBB685AAC 62F0E4420907DA5C26B24BAE96A39BDCE

1.3 Intermediate Certificates

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
1	1	CN = Trustgate Class 1 Root Certificate Authority O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MSC Trustgate.com Individual ID (Mobile) Basic CA OU = Malaysia Licensed CA No LPBP-2/2010(1) O = MSC Trustgate.com Sdn. Bhd. C = MY	51251D589F545C11BE0030925F6955C0	RSA	2048 bit	sha256 WithRSA Encryption	Friday, 12 August, 2016 00:00:00 AM	Tuesday, 11 August, 2026 23:59:59	F60499730AAB0687322DB7C4172E2E0E93A517AF	D784BA8EA0364AFF850BF55BA490D1526B3F58304807F9D8F1E09CF8D3051560
2	2	CN = Trustgate Class 2 Root Certificate Authority O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MyTrust Class 2 AATL ECC Individual CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	6E082CB41BDA386C9A5D20D5A1662207	ECC	384 bit	ecdsa-with-SHA384	Friday, 18 August, 2017 00:00:00	Tuesday, 17 August, 2032 23:59:59	EB878598F64EF009E1EE8640FB7830F3C72F90D1	8047C01E0260FA2C3D273F6F8F7877A549CA7CA0D7D1DF32BA85BD3D640905BA
3	3	CN = Trustgate Class 2 Root Certificate Authority O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MyTrust Class 2 AATL RSA Individual CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	76C77200B34BC0858ED5AC1F10EAC7C03	RSA	2048 bit	sha256WithRSAEncryption	Friday, 18 August, 2017 00:00:00	Tuesday, 17 August, 2032 23:59:59	6D0F85E9815A8DEBAFF6482238FA4D78AB20BB31	687AF08F0CBB139D2DCB054591B206178015441C1D8D1E209D437673CBD5C4A9
4	4	CN = Trustgate Class 2 Root Certificate Authority	CN = MSC Trustgate.com Class 2 MPKI CA O = MSC	74F79FEA598446997A1CF7D53E0E	RSA	2048 bit	sha256WithRSAEncryption	Thursday, 19 October, 2017 00:00:00	Monday, 18 October, 2027 23:59:59	8A904F921FBD19396012F93FE75F2F5716C42286	CC6ADC88D783574EA3E4F5114FF3AE4DB5B1470934242C62471B124A419C2F94

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
		O = MSC Trustgate.com Sdn. Bhd. C = MY	Trustgate.com Sdn. Bhd. C = MY	797A							
5	5	CN = Trustgate Class 2 Root Certificate Authority O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MSC Trustgate.com Corporate ID (Mobile) CA OU = Malaysia Licensed CA No LPBP-2/2010(1) O = MSC Trustgate.com Sdn. Bhd. C = MY	1EB11E7 511C5E8 D8E2EEC 37C9B22 FB9E	RSA	2048 bit	sha256W ithRSAEn ryption	Friday, 12 August, 2016 00:00:00 AM	Tuesday, 11 August, 2026 23:59:59	BF520D3C0184 CE5EE87D6183 00F3055312910 07A	5210171AF8C5C721B32F2BEEFBDE03 31F9876067908F3FD0D589E002F99C F532
6	6	CN = Trustgate Class 2 Root Certificate Authority O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MSC Trustgate.com Corporate ID (Token) CA OU = Malaysia Licensed CA No LPBP-2/2010(1) O = MSC Trustgate.com Sdn. Bhd. C = MY	029F1863 9809BE2 9E1F9B4 D747ED8 AF4	RSA	2048 bit	sha256W ithRSAEn ryption	Friday, 12 August, 2016 00:00:00 AM	Tuesday, 11 August, 2026 23:59:59	555CAAC636B3 61BF30A441AC BA2D9BDF58D2 8401	A61D795B0EF27E96848585C2187C94 76645528697ABE50BA3692F03663F0 8748

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
7	7	CN = Trustgate Class 2 Root Certificate Authority O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MSC Trustgate.com Individual ID (Mobile) CA OU = Malaysia Licensed CA No LPBP-2/2010(1) O = MSC Trustgate.com Sdn. Bhd. C = MY	251CCD1 5C27EDA CD6FB82 3850EEA DA98	RSA	2048 bit	sha256W ithRSAEn ryption	Friday, 12 August, 2016 00:00:00 AM	Tuesday, 11 August, 2026 23:59:59	57E6239557F0C 21738550041E9 B73F72081A06 87	351B29A7F1354F7FA0F39ED5559A94 17A55E192207332FF0BDBC6DA0D4E 62D34
8	8	CN = Trustgate Class 2 Root Certificate Authority O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MSC Trustgate.com Professional ID (Mobile) CA OU = Malaysia Licensed CA No LPBP-2/2010(1) O = MSC Trustgate.com Sdn. Bhd. C = MY	0D7B6B7 6CA7176 1795F487 93AB6FA 39E	RSA	2048 bit	sha256W ithRSAEn ryption	Friday, 12 August, 2016 00:00:00 AM	Tuesday, 11 August, 2026 23:59:59	906D85D431D D35E2D8EBD3B 265B32CAA0B8 23419	5243B6A6B861C827B314BBFDE35AE 7DF5EBB3F8EF196D35DB2B9CF5EBE CBCA04
9	9	CN = Trustgate Class 2 Root Certificate Authority O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MSC Trustgate.com Professional ID (Token) CA OU = Malaysia Licensed CA No LPBP-2/2010(1) O = MSC Trustgate.com Sdn. Bhd. C = MY	6D8973D 93A5DE7 31466F0 CC9DBB5 D6E6	RSA	2048 bit	sha256W ithRSAEn ryption	Friday, 12 August, 2016 00:00:00 AM	Tuesday, 11 August, 2026 23:59:59	4331201D7F3F CBB9F444CE23 21730F6E0581E3 4F	ACB79E7E11B201324313A9AF76A6D 09564CEF2ED8DEC6BE6D65FAC1F5F 21FA4B

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
10	10	CN = Trustgate Class 2 Root Certificate Authority O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate Class 2 Consumer CA O = MSC Trustgate.com Sdn. Bhd. C = MY	09E32A33F8B0AA 58DCEFF667A AB43 C53	RSA	2048 bit	sha256WithRSAEncryption	Friday, 6 July, 2012 00:00:00	Tuesday, 5 July, 2027 23:59:59	A55AF421B719 CEA67B436E5B F4F1E3C9C8352 EFC	44DB03515AB99AFFBC68AC2298A4 B9DDBDBBC80377B13107B708A184 66303445
11	11	CN = Trustgate Class 2 Root Certificate Authority O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Bank Negara Malaysia Class 2 CA-G3 O = MSC Trustgate.com Sdn. Bhd. C = MY	0C0996D CF45F38 98F9DE1 46C9FB8 C1F2	RSA	2048 bit	sha256WithRSAEncryption	Thursday, 19 October, 2017 00:00:00	Monday, 18 October, 2027 23:59:59	4CB88BB74BB5 B3F92B5636858 45A1B2F2810B 278	A4166F2E0125B553E84CBA1B7D240369AB2A5A B1846C0EF14E2332CEBD39E180
12	12	CN = Trustgate Class 2 Root Certificate Authority O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MAMPU Class 2 CA OU = Authenticated by MSC Trustgate.com Sdn. Bhd. O = Unit Pemodenan Tadbiran dan Perancangan Pengurusan Malaysia C = MY	27125CA 7BDF095 052D9FA E592958 DB89	RSA	2048 bit	sha256WithRSAEncryption	Thursday, 19 July, 2012 00:00:00	Sunday, 18 July, 2027 23:59:59 AM	771B79D60DC2 762655044962 A428D7F46EB7 092D	4620E1CD3D0B931441BB25BDB8A7791699F830 BB579E6E79A72044E39A5D9E30

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
13	13	CN = Trustgate Class 2 Root Certificate Authority O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = NCSA O = Majlis Keselamatan Negara C = MY	599FE280 4841404 1DF1401 70DCA81 FFA	RSA	2048 bit	sha256W ithRSAEn ryption	Tuesday, 8 March, 2016 00:00:00 AM	Saturday, 7 March, 2026 23:59:59	CB5DBC12FCC F18FC6DA1BC0 7B19035252611 65A	EC7F4D7E05B60ED09392B0A0081C0 B4A2FB165D8CEB6ED20CC44A533DE C539CB
14	14	CN=Trustgate Class 2 Root Certificate Authority O=MSC Trustgate.com Sdn. Bhd C=MY	CN=INTECH-KLIS CA OU=Remote Signing System O=IDAMAN NURANI TECHNOLOGIES SDN. BHD C=MY	0DD4440 FF954D2 E5E51487 E4D24F9 092	RSA	2048 bit	sha256W ithRSAEn ryption	Wednesday December 19 2018, 00:00:00	Sunday December 18 2033, 23:59:59	AB539E3D6E30 3789042BB25A CE85BC781D94 FDD9	D0D6BA9EA1822C1C57F96F39BEE2A47A431889 B7FD4C3BA25FB2200DC1873EBF
15	15	CN = Trustgate Class 3 Root Certificate Authority O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MyTrust Class 3 AATL ECC Organisation CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	14E60A4 2B5DC2C FA680A3 8ED34A1 5EB5	ECC	384 bit	sha384W ithRSAEn ryption	Friday, 18 August, 2017 00:00:00	Tuesday, 17 August, 2032 23:59:59	58AB1C0C04C8 6BE18BE288487 65F850AB7ED0 BF0	497E0043F9D6CE4FE1802A9ECDB8C4 E45629D74C806F3F661BCB0CDB567 0C737

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
16	16	CN = Trustgate Class 3 Root Certificate Authority O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MyTrust Class 3 AATL RSA Organisation CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	21C29C4 3B6E537 D4E96CD 3FE12405 CC5	RSA	2048 bit	sha256WithRSAEncryption	Friday, 18 August, 2017 00:00:00	Tuesday, 17 August, 2032 23:59:59	BEC10F2621DD 12947F77EB056 7A938A0D2B7A 56D	8160571E01B7F308146AA71969C4EE 6180AEFFA8F71779BDA9368F4212A1 5951
17	17	CN = Trustgate RSA Certification Authority OU = Malaysia Licensed CA No	CN = ABMB-MFA CA OU = Remote Signing System O = Alliance	1F1FBF124EB3 872E663C56A C88829224	RSA	2048 bit	sha256WithRSAEncryption	Tuesday, 17 January, 2017 00:00:00	Sunday, 16 January, 2032 23:59:59	EEE08F65BBEBB 49B0933497A7 50558DC2302B 9D3	F26EDD6166A7507C20C641D2961349 E1875C2144C040D507EEA6EA7E173F43D7
18	18	CN = Trustgate RSA Certification Authority OU = Malaysia Licensed CA No LPBP-2/2010 (1) O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = eCourt ID CA O = Mahkamah Persekutuan Malaysia C = MY	0A4B551 8DAE605 D7E8600 90A8784 3722	RSA	2048 bit	sha256WithRSAEncryption	Monday, 19 December, 2016 00:00:00	Friday, 18 December, 2026 23:59:59	B754F4515D4D F526D7109037 46624C4BC863 5005	CC37D4FEC512879D95BE7F2DBEFED 1ABD25A60CA20297CA70FB12C45CC 34F353

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
19	19	CN = Trustgate Time Stamping Authority CA (ECC) OU = Malaysia Licensed CA No LPBP-2/2010 (1) O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate Time Stamping Services CA (ECC) O = MSC Trustgate.com Sdn. Bhd. C = MY	45FE0985 DC94AC CC26F30 9492CC1 8479	ECC	384 bit	ecdsa-with-SHA384	Monday, 19 December, 2016 00:00:00	Friday, 19 December, 2031 23:59:59	5146B3587866E D571800F03EA 98CBAE3E8E63 5EB	67AC1B817817B9C626D6D3E8487A1 C7FEC8AA27336D50148580F88BB67F FB7FF
20	20	CN = Trustgate Time Stamping Authority CA OU = Malaysia Licensed CA No LPBP-2/2010 (1) O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate Time Stamping Services CA O = MSC Trustgate.com Sdn. Bhd. C = MY	4BCB04E 956A652 580CFAC 341F9D9 0FA1	RSA	2048 bit	sha256WithRSAEncryption	Monday, 19 December, 2016 00:00:00	Friday, 19 December, 2031 23:59:59	0127B0268D65 973B6A104466 DEA7AE1884C3 609B	091538A9476A4F6A6956F31B133992 536881C28323D19B57E2C5D91EB47 70B22
21	21	CN = MyTrust Class 1 ECC Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn.	CN = MyTrust Class 1 ECC Individual CA OU = MyTrust Gateway O = MSC	5B40CCD F5DB5AD 9EAE6ED CAA93A1 A43E	ECC	384 bit	ecdsa-with-SHA384	Monday, 28 August, 2017 00:00:00	Friday, 27 August, 2032 23:59:59	86F4FE304F3BA 73E02B72E622 AAF7C429C1FF A8D	4A32CB42C34E023600D0D88CE6182 63F0BDAA8BC4E27DCC1993A7ADC3 193EFB0

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
22	22	CN = MyTrust Class 2 ECC Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MyTrust Class 2 ECC Individual CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	31748E2E 336007C 8D0D52F 5D7C605 3B7	ECC	384 bit	ecdsa-with-SHA384	Monday, 28 August, 2017 00:00:00	Friday, 27 August, 2032 23:59:59	E6A213F17F466 916E0EDA4569 9E1CC58BFC73 EF2	F040B8C96223510A3190E0E8523315 9986BD26187D11C909D65AB8E0D29 8AA22
23	23	CN = MyTrust Class 2 ECC Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MyTrust Class 2 ECC Enterprise CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	63ACE72 4C08EDF BE4D329 8B00E71 A101	ECC	384 bit	ecdsa-with-SHA384	Monday, 28 August, 2017 00:00:00	Friday, 27 August, 2032 23:59:59	28D85B122A7F 351F5AEBFD72 8E5EC4C3A35D 986E	3F3F420309A7EB4328216BF79AB491DA B949567A2622F3854CA237C7A9B42D2A
24	24	CN = MyTrust Class 2 ECC Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Bursa Anywhere CA OU = Remote Signing System O = Bursa Malaysia Berhad C = MY	1BF8459 A40C5B0 C65A3E6 02A1C3E 06F4	ECC	384 bit	ecdsa-with-SHA384	Wednesday, 20 November, 2019 00:00:00	Saturday, 19 November, 2034 23:59:59	3F8471DB708F 0D0199B845A4 BF5BD0DA8206 03B5	2D01696CC852C4CE5317778A9FA16 BBEA14CDEE10F5FBA91A3B37D8FF5 2768E5

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
25	25	CN=MyTrust Class 2 ECC Root CA OU=MyTrust Gateway O=MSC Trustgate.com Sdn. Bhd C=MY	CN=GPKI CA ECC OU=MAMPU, O=MSC Trustgate.com Sdn. Bhd C=MY	2DFFFDA 9B6CF35 2F36D3F F2B798F5 4ED	ECC	384 bit	ecdsa- with- SHA384	Friday,24 March, 2020, 00:00:00	Friday, 23 March, 2035, 23:59:59	6598B4EA5FE27 F1D2D15E01E0 A6263BD6B3A8 526	567EF5A4C14641BC6B46452540F187 B5686407DF4BDD51E5A3B1C79E678 F97B8
26	26	CN=MyTrust Class 2 ECC Root CA OU=MyTrust Gateway O=MSC Trustgate.com Sdn. Bhd C = M Y	CN = MyLawyer ID CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	4A4418E 9745A08 20A6788 F2A9858 41D7	ECC	256 bit	ecdsa- with- SHA384	Wednesday, 9 December, 2020 00:00:00	Saturday, 8 December, 2035 23:59:59	11F11C8192FF9 0D924D4349DE B647AB0288C1 E14	3B89B1CED28ED8045BA39015FAEB6 C7FBF7D5E6A046B2F0198B846D7BE DA0006
27	27	CN = MyTrust Class 3 ECC Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MyTrust Class 3 ECC Enterprise CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	32640E3 4187668 C98D426 CF5BBDB 4C3C	ECC	384 bit	ecdsa- with- SHA384	Monday, 28 August, 2017 00:00:00	Friday, 27 August, 2032 23:59:59	B49BF36BADB1 745162AF38142 D5A623D14B2F 779	8EA69844C4A6BDA29FC13FD65A237 1E9E689C22C1BF6585432406B527F8 6730F

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
28	28	CN = MyTrust Class 1 RSA Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MyTrust Class 1 RSA Individual CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	47908FA 601B94A 1FBD954 CE8ED83 7982	RSA	2048 bit	sha256WithRSAEncryption	Thursday, 17 August, 2017 00:00:00	Monday, 16 August, 2027 23:59:59	29FDF2DDA2A 4C7EC1A70477 01D03FE58FDA 7110	9C4CD1AB5BAE1D2D786E56BF98252 57AAAD18519C44016170043B94AF6 1D61CE
29	29	CN = MyTrust Class 2 RSA Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MyTrust Class 2 RSA Individual CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	3D501D522D2 B 3643218DF5EC CF 7642A5	RSA	2048 bit	sha256WithRSAEncryption	Thursday, 17 August, 2017 00:00:00	Monday, 16 August, 2027 23:59:59	545F5B34BC3A CC4F2D9B47D8 58FBFE3673C2 A9B4	35F1FAF93C2FAB2BF302F551525C587 FD4D434BB6BB247ED75B50DB0F2FE2AB3
30	30	CN = MyTrust Class 2 RSA Root CA OU = MyTrust Gateway	CN = MyTrust Class 2 RSA Enterprise CA OU = MyTrust Gateway	7306EB9 7981BB4 2A3190C AAC7BE 3382	RSA	2048 bit	sha256WithRSAEncryption	Thursday, 17 August, 2017 00:00:00	Monday, 16 August, 2027 23:59:59	60D7F177ED65 8E5EB4BF92489 18C165E0A8E4 578	1B1EE0498319BF0A223D4917A41A45 4D4EA08F44C5C8BD26F6512125637 7CB6A
31	31	CN = MyTrust Class 3 RSA Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd.	CN = MyTrust Class 3 RSA Enterprise CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	0A4740D F0BF83A F01289C A0FD093 E64A	RSA	2048 bit	sha256WithRSAEncryption	Thursday, 17 August, 2017 00:00:00	Monday, 16 August, 2027 23:59:59	8AD619A52D4 D712FBAA6D05 294DAABA6F6F 18499	ADEABEB6A51091CAD7DBCE54EC0C 6B4DFADC3ACF16F18311CADCF510E 8037366

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
		C = MY									
32	32	CN = MyTrust Class 3 RSA Root CA OU = MyTrust Gateway O = MSC Trustgate.co m Sdn. Bhd. C = MY	CN = MyTrust RSA Code Signing CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	73E1107 BF5B5EB 3C460A0 A9381A7 B971	RSA	2048 bit	sha256W ithRSAEn ryption	Wednesday, 21 March, 2018 00:00:00	Monday, 20 March, 2028 23:59:59	67C1CF007DAB 64E0CCDFA870 D6120A3501F7 11A0	4F49F31B1E2B4BD4D37659E0F18D43 8C7CD41DDB970C6B3373B5608C61B BFB44
33	33	CN = MyTrust Class 3 RSA Root CA OU = MyTrust Gateway O = MSC Trustgate.co m Sdn. Bhd. C = MY	CN = MyTrust RSA SSL CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	7BFA5E2 572E901 5F8DFD3 D7A980B 30D7	RSA	2048 bit	sha256W ithRSAEn ryption	Wednesday, 21 March, 2018 00:00:00	Monday, 20 March, 2028 23:59:59	6C6DCE4158A2 BDA132158CC0 729C8D14DC4C 2A7F	B524ABDA93244786185FB291B358A 6CAD1012E2F251AD0E0486546993A F416B6
34	34	CN = MyTrust Class 3 RSA Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MyTrust RSA EV Code Signing CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	6D89341 8F615BF8 53F91EE AE8AC11 FDB	RSA	2048 bit	sha256W ithRSAEn ryption	Wednesday, 21 March, 2018 00:00:00	Monday, 20 March, 2028 23:59:59	BEBCD01D30D2 00D3B3CC5D72 F5EC2EC7B95C 552B	70EC99FF806982D8364746CB78106E EBC3FC615FF109A70C4DFC477D440 54CAD

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
35	35	CN = MyTrust Class 3 RSA Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MyTrust RSA EV SSL CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	36606ED B5F0B00 8998A86 F1CC3DB A38E	RSA	2048 bit	sha256withRSAEncryption	Wednesday, 21 March, 2018 00:00:00	Monday, 20 March, 2028 23:59:59	0674D522F583 64427D7507AE 79E0B904EBE05 9ED	740D432D12D66D95438305BAC9F05 4B706524998CEEC2C5E63E409CEBED D54B6
36	36	CN = MyTrust Class 3 RSA Root CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd. C = MY	CN= PayNet CA O= Payments Network Malaysia Sdn Bhd. C=MY	29CE7B4 2B0ABE8 E6C0E6A 7BC2DF5 E7AD	RSA	2048 bit	Sha384withRSAEncryption	Thursday, 21 January, 2021 00:00:00	Tuesday, 21 January, 2031 23:59:59	C4619CB76A58 A4BAA03C39B DAD9AEA899F D7F472	B70119C3B78800839F1A5246CB1DF5 4F2F148012F785371755669B278D03 84AF
37	37	CN=MyTrust Digital ID Root CA OU=MyTrust Gateway O=MSC Trustgate.com Sdn. Bhd C=MY	CN=MyTrust Digital ID Class 1 CA OU=MyTrust Gateway, O=MSC Trustgate.com Sdn. Bhd, C=MY	559A9C1 768236C 3B0B8DC 6B20FD8 DD1F	ECC	384 bit	ecdsa-with-SHA384	Monday, 26 November 00:00:00 2018	Friday, 25 November 23:59:59 2033	5237D7B82935 DDFAADFAD2F 864652519BB13 3828	7096769E0A335DADCFB6DEA0DDCE EF47CB1FA3B8709326BACA41514B6 49CAC8C
38	38	CN=MyTrust Digital ID Root CA OU=MyTrust Gateway O=MSC Trustgate.com Sdn. Bhd	CN=MyTrust Digital ID Class 2 CA OU=MyTrust Gateway, O=MSC Trustgate.com Sdn. Bhd, C=MY	70A5FFEE 8E7EC08 7E799AA 36CC41D 326	ECC	384 bit	ecdsa-with-SHA384	Monday, 26 November 00:00:00 2018	Friday, 25 November 23:59:59 2033	BE48F41A2D3E B53521D31966 A98254B53D54 D5F4	D42F0C30DD9896F8E0EDED01FC449 4F317B7DC7E6530590EDDB4D84228 050C99

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
		C=MY									
39	39	CN=MyTrust Digital ID Root CA OU=MyTrust Gateway	CN=MyTrust Digital ID Class 3 CA OU=MyTrust Gateway,	6E8F6812 D271113 57BBF0D 703635D 68E	ECC	384 bit	ecdsa- with- SHA384	Monday, 26 November 00:00:00 2018	Friday, 25 November 23:59:59 2033	38A29BDC0E9B 49AE4D8B5307 7892EA6261A6 3B82	94B349BC4BE13041EA9A47315CE22E 0EA327873FADA258EDC99B91F56F0 F8439
40	40	CN = Trustgate Secure Server Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate Extended Validation Server CA O = MSC Trustgate.com Sdn. Bhd. C = MY	00ec4a157 8a3200376 7f5b20b80b 0dad05	RSA	2048 bit	Sha384wi thRSAEnc ryption	Thursday, 7 April 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	D47BC6C114B CF57826BC6D2 C3E7515174BA 205C0	80689FEA931C13B6399096B44989CF 2DDB3BB42DBFBAC25D56D274B9FEC 23968
41	41	CN = Trustgate Secure Server Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate Secure Server CA O = MSC Trustgate.com Sdn. Bhd. C = MY	00b52e33ec2 c56b59a04965 d35d17dc028	RSA	2048 bit	Sha384wi thRSAEnc ryption	Thursday, 7 April 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	D5B5C719032D 3BC09960623E5 E6CE227D20A38D 9	D25E03BDBF23BF7772167268834F1 FFC094CEF1D9A27C320FEB8320EF181 3DBC
42	42	CN = Trustgate Secure Server Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate Basic Server CA O = MSC Trustgate.com Sdn. Bhd. C = MY	00c3af2ed14f de0fe371612 dbff8bd9388	RSA	2048 bit	Sha384wi thRSAEnc ryption	Thursday, 7 April 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	AB4BA7463A645D FCA 85DEED6AC080A9 CE7 6345E0	F6330ED89B22D8C06E46B2F733DA 812374CD853B89EF1D6222B9162B0 A00CAFD

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
43	43	CN = Trustgate ID Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate SMIME Individual CA O = MSC Trustgate.com Sdn. Bhd. C = MY	0085834d4e496c6aa2dfa2f8368b47bc88	RSA	2048 bit	Sha384withRSAEncryption	Thursday, 7 April 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	2047FCB34BF41B3295D7D5ACD57B27A986C71DD9	2CFE9402F6DDAAA69154A541D713B8B7C7F83D33FAA696F8F0D1FB87271F3AE0
44	44	CN = Trustgate ID Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate SMIME Organization CA O = MSC Trustgate.com Sdn. Bhd. C = MY	00dcd1aaf8b041f1478e24cce037454559	RSA	2048 bit	Sha384withRSAEncryption	Thursday, 7 April 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	F28CC1BF53F6A50B4DAB6E3EC8268BF783628A24	B4AEF17549780191EEF9E9592D40E378CE491781C0066B4D82E4F5D67B3C0134
45	45	CN = Trustgate ID Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate Document Signing CA O = MSC Trustgate.com Sdn. Bhd. C = MY	32d31f77b35a0212203c915c2bd63a00	RSA	2048 bit	Sha384withRSAEncryption	Thursday, 7 April 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	7D790A3DA6DD67567FF68DC6A047C628D8F5BC69	CA3A2B1EA210207F7D7A08BBC86EFDD391B1726EC7DD5357CC7576B7092C58CF

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
46	46	CN = Trustgate MPKI Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate MPKI Individual Subscriber CA O = MSC Trustgate.com Sdn. Bhd. C = MY	008020df6b27 3f58369e9ed 911ecfed0ee	RSA	2048 bit	Sha384wi thRSAEnc ryption	Thursday, 7 April 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	780DDBEB312DC 28 D25BF5F3C1DA5 BB 33F84AD495	2685AD25E4393E39944F95FEACB704261 DD88BFD3100A06756A563D2CAB499DA
47	47	CN = Trustgate MPKI Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MyKad ID CA O = MSC Trustgate.com Sdn. Bhd. C = MY	00b71b4254 797d9028605 d67c010abc5f 8	RSA	2048 bit	Sha384wi thRSAEnc ryption	Wednesday, 27 April 2022 00:00:00	Saturday, 25 April, 2037 23:59:00	D64B037E1A9C7 63 B070E954ADBF8 2252 A6BD1E20	0AE0DF704E86B6845CD0F94B0A4A51 F27E8A5194D39A94BF32560F09ACEA4F88
48	48	CN = Trustgate MPKI Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = GPKI CA O = MSC Trustgate.com Sdn. Bhd. OU = MAMPU C = MY	23ebbeb38a 1029166c9 dee0a15aec07 b	RSA	2048 bit	Sha384wi thRSAEnc ryption	Thursday, 7 April 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	EB657009E9359F 9 D65E6CDFC5526 D 1371D5E3779	962AD5D1976B0F65895788371795A 1D4DEA139B82974E0E8E1EE518AEC1D6713
49	49	CN = Trustgate MPKI Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = eP ID CA O = MSC Trustgate.com Sdn. Bhd. OU = ePerolehan C = MY	0084f9cd9ce 8766571978fc 790187350fc	RSA	2048 bit	Sha384wi thRSAEnc ryption	Thursday, 7 April 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	9DE185EC63061 A 154FAF4919442F B5 CCAED1EE78	85FD130D83DBE0049818DCDB12203 F6C16616289CE7EE2E6C14F03BD29FADA64
50	50	CN = Trustgate MPKI Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = NPRA ID CA O = MSC Trustgate.com Sdn. Bhd. C = MY	305eba080a 1d6f877f0cbe 469ef5877f	RSA	2048 bit	Sha384wi thRSAEnc ryption	Wednesday, 27 April 2022 00:00:00	Saturday, 25 April, 2037 23:59:00	E5C309F05853E D 34158451BDD47 D 04F4BA99C254	AC717550BB1446C617128B723E36D46B9 CDE7AD58D89F2AE325BDD13036E95C0

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
51	51	CN = Trustgate MPKI Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Healthcare ID CA O = MSC Trustgate.com Sdn. Bhd. C = MY	00863f1e682ef8898f01fd09e4a066287e	RSA	2048 bit	Sha384withRSAEncryption	Wednesday, 27 April 2022 00:00:00	Saturday, 25 April, 2037 23:59:00	02F72A5AFAA34A696DCD170CF8248E7E3C450715	FBE9A14D3CAA3F72D0A402E5AE41581EAF1D7A79F12B4E3E722450B8372F1205
52	52	CN = Trustgate MPKI Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = ABMB-MFA CA - G2 O = MSC Trustgate.com Sdn. Bhd. C = MY	532e5372d5193cf4454b45735e1c7394	RSA	2048 bit	Sha384withRSAEncryption	Wednesday, 27 April 2022 00:00:00	Saturday, 25 April, 2037 23:59:00	7327D516DB0F319573F64AF3B287BC4E2E8504E4	E623BD036F1C56E664536DE064710494816CEE48BCD5A5F36AAD744AC31CEF44
53	53	CN = Trustgate MPKI Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = PayNet CA - G2 O = MSC Trustgate.com Sdn. Bhd. C = MY	104ee2d2031bbb8ac91f122845ef45e1	RSA	2048 bit	Sha384withRSAEncryption	Wednesday, 27 April 2022 00:00:00	Saturday, 25 April, 2037 23:59:00	0B0F86D741829B0EFE5CCC3744D6F0A8034BDCBF	56B97166434D8BDE298B353F6F800A70BE185A23FF97274EE0A7765CEAEB78D0
54	54	CN = Trustgate ECC Time Stamping Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate ECC Time Stamping Services CA O = MSC Trustgate.com Sdn. Bhd. C = MY	2041904eaf1b4af03c4f7f53cc74a83f	ECC	384 bits	ecdsa-with-SHA384	Thursday, 7 April, 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	6BC9C97B0423D3DE8FF444F5DD6EA687027A9880	7348112B9D8DF0042E920E202D532F6CA89A352BEDC59B8E85947C86F88B5EED

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
55	55	CN = Trustgate ECC ID Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate ECC Document Signing CA O = MSC Trustgate.com Sdn. Bhd. C = MY	1ff4a876643e11b201bdb1a7506b351a	ECC	384 bits	ecdsa-with-SHA384	Thursday, 7 April, 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	C9FEDF4D25307080668 F63956F3D4CD6F0A494F8	6D21B608F47E08BFE8265015F25DF0A CD02B4DD6E08D20CBE56BE0DF4D69FB91
56	56	CN = Trustgate ECC MPKI Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate ECC MPKI Individual Subscriber CA O = MSC Trustgate.com Sdn. Bhd. C = MY	404f8ed0902e42b4cc0b4ab1c0151c33	ECC	384 bits	ecdsa-with-SHA384	Wednesday, 27 April 2022 00:00:00	Saturday, 25 April, 2037 23:59:00	11E5E1621CED21FBCC75 8681750C3D7692A270A9	E10696EFAF72D5E0D0B62A80E687D 4852227C30BAC367768F1451873A5C5BAB1
57	57	CN = Trustgate ECC MPKI Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Bursa Anywhere CA - G2 O = MSC Trustgate.com Sdn. Bhd. C = MY	00cee0600a39b695 fbbf7f1099a2a478a3	ECC	384 bits	ecdsa-with-SHA384	Thursday, 7 April, 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	456671A5C31F674695C1 A83A3EF4CC991881F546	9A7BC4FDC454F1B920BFF8A7E7 D578CC805F2C0C09B7ADE2B68C 484EAFA7DA0C

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
58	58	CN = Trustgate ECC MPKI Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = GPKI CA ECC - G2 O = MSC Trustgate.com Sdn. Bhd. OU = MAMPU C = MY	008d3842634d7 9 14d84649345da 01 d51a1	ECC	384 bits	ecdsa- with- SHA384	Thursday, 7 April, 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	8837629CBF1E5B2 3124 38F4338531BA697 07C22E	229028210BE6A3B6176E8F5441 B5EE629DA94BF28F425BA997F2 E5AD5D7F8812
59	59	CN = Trustgate ECC MPKI Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MyLawyer ID CA - G2 O = MSC Trustgate.com Sdn. Bhd. C = MY	0089312c5ed6b 24 a6fd27381c6b3f e17bf	ECC	384 bits	ecdsa- with- SHA384	Thursday, 7 April, 2022 00:00:00	Sunday, 5 April 2037 23:59:00	14E872374C9590F B4322 426AFFD4EFF5E3F DFB29	EF4C2488FA68ABAA945445254C3DEB49 EF8269F736593F093493B41C7103ADF3
60	60	CN = Trustgate ECC MPKI Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate Digital ID Class 3 CA O = MSC Trustgate.com Sdn. Bhd. C = MY	00c190d449caff 4d 5368ebaa7e871 1ba00	ECC	384 bits	ecdsa- with- SHA384	Wednesday, 27 April 2022 00:00:00	Saturday, 25 April 2037 23:59:00	29BC0D9C211748 425DD 9676B6CDAAD7E7 4D15087	7EC5C9AB617519B1655CB0587B68E668 B974F8A9B098405416159ADA6D03FF3A