

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 2023 to 31st August 2024 for its CAs as enumerated in [Appendix A – List of Root, Bridge, and Intermediate 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 6.0.2 dated 15th August 2024](#)
 - [MSC Trustgate.com Certificate Policy \(CP\) Version 5.0 dated 29th July 2024](#)
- 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.](#)

MSC Trustgate-CA does not escrow its CA keys, does not provide certificate suspension services and does not provide Integrated Circuit Card (ICC) card life cycle management. 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 behavior.

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.
- 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 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.

Opinion

In our opinion, throughout the period 1st September 2023 to 31st August 2024, 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 LHH
Petaling Jaya, Malaysia
5 November 2024

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, Bridge, and Intermediate CAs in Scope](#), and provides the following CA services:

- Subscriber Registration
- Certificate Renewal
- Certificate Rekey
- Certificate Issuance
- Certificate Distribution
- Certificate Revocation
- Certificate Validation
- Certificate Generation and Management

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) 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 2023 to 31st August 2024, 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 6.0.2 dated 15th August 2024](#)
 - [MSC Trustgate.com Certificate Policy \(CP\) Version 5.0 dated 29th July 2024](#)
- 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](#) 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

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- 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, does not provide certificate suspension services, and does not provide Integrated Circuit Card (ICC) card life cycle management. Accordingly, our procedures did not extend to controls that would address those criteria.



Lo Nyan Tjing
Chief Executive Officer
MSC Trustgate.com Sdn. Bhd.
5 November 2024

Appendix A – List of Root, Bridge, and Intermediate CAs in Scope

Root Certificates

CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
1	1	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	0A8BC4060F5A6CD34D07805DA007ABF5	RSA	2048 bit	sha256WithRSAEncryption	Friday, 6 July, 2012 00:00:00	Saturday, 5 July 2042 23:59:59	2A3D3B9F9D04906AE10124C53951D15B95705166	E2026B5646F49F9671D4318E09094A23CE34C94B5410F19B39D490A761C A65D1
2	2	CN = Trustgate RSA Certification Authority OU = Malaysia Licensed CA No LPBP-2/2010 (1) O = MSC Trustgate.com Sdn.	CN = Trustgate RSA Certification Authority OU = Malaysia Licensed CA No LPBP-2/2010 (1) O = MSC	1F61B6A273937D89952BC4AF8E86050E	RSA	4096 bit	sha256WithRSAEncryption	Monday, 19 December, 2016 00:00:00	Wednesday, 18 December, 2041 23:59:59	682D2C5F3EE2D6832A4156E3492CB822199A34F4	DC7ACA56E0921E3C54E7DA854A13CDE917B3EEC386B8E9D59201F812E4E9B40C



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CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
		Bhd. C = MY	Trustgate.com Sdn. Bhd. C = MY								
3	3	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 F755CAC506DDB6 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



CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
4	4	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	4139BAC7F7F45005DCD7F76ADEBF17B1	RSA	4096 bit	sha256WithRSAEncryption	Monday, 19 December, 2016 00:00:00	Wednesday, 18 December, 2041 23:59:59	48DC4E36DE951AAB57394F5335EB341AAE9ACA09	CF74F634C21A6AA376FD264E31EAB031845FFD048D20F9C41AC73C8ED5 BC4737
5	5	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	601D50352FFCA3C4ABD91C3F3252933	ECC	384 bit	ecdsa-with-SHA384	Monday, 28 August, 2017 00:00:00 AM	Thursday, 27 August, 2042 23:59:59	9173B201A3D2B94012C6630DDFF5D58E7319B196	97351977E28FD6602FE1ADAE58E8994212CB02D995F866D2F5DC41D9E94 6B855



CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
6	6	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	690E6C98FBBF D993A53168FE 8CDEED62B	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
7	7	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 338DC6FB31AD68 A10B	RSA	2048 bit	sha256WithRSAAEn ryption	Thursday, 17 August, 2017 00:00:00	Saturday, 16 August, 2042 23:59:59	5CE3BD7F944D92CA1B5A7 B424353A60308C50CC2	A788D9F9EBE7648CFED6D8B071 382A30780D9719A802731F066F 59B3212 4A8B3



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CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
8	8	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	68A309B10AE497 B9A91EAF8B35A5 E87B	ECC	384 bit	ecdsa- with- SHA384	Monday, 26 November 2018, 00:00:00	Wednesday, 25 November 2043, 23:59:59	FC06AAC4B0F749C206B54A 2C646DFD5260C4D937	D21BECBEF35470585672E8F57216 97F71C7CC4D731C4A0FCCDB1A1 8FCB 5691FA
9	9	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 3e69d2dd055962c85	RSA	3072 bit	Sha384W ithRSAEn ryption	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
10	10	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	3336f4583 b92340981 8fcf3577b40ece	RSA	3072 bit	Sha384WithRSAEncryption	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2024 23:59:00	AB604E47E04232B9794441F682AB37EFB9FCB059	A233FA00067C0A31EC80793F6F4623DED687E8FD71241FD560BA292D98AB3737
11	11	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	12c0c769d716b639 5f0386dfd3a4310f	RSA	3072 bit	Sha384WithRSAEncryption	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2024 23:59:00	1623FB16A21D47AEBD2149CEBF4FB69A084DEF9	433DB9E222A1EF0AF4F4C4DFAEE76643B9039F1758A13BDFBED36C7290114162



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CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
12	12	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	009A7ED31D3A6D 7959FD3840EC3A308 5A0	RSA	3072 bit	Sha384WithRSAEncryption	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2047 23:59:00	7B239AF4D4285041C6A925 50A1CDABAF213A7F38	075CEA0ADE7133F67F3EB44815A0 7E6E4865534901FF1400C42A3C6D 3123F95A
13	13	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	00B250E71ACF1 8397B15316921 D33ECC49	ECC	384 bit	ecdsa-with-SHA384	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2047 23:59:00	DEE7A462B667A762DADBB2 024F7C6C8B088B6F26	AFF58C68DFA45AF80B7D965545E 8DC08221E527C8C1090E41270DD 9FE7B523D6



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CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
14	14	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	7DBFAA742A870 ECD10441F7E239 414D3	ECC	384 bit	ecdsa- with- SHA384	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2047 23:59:00	68F7475232F55AA586F9C0E E65349FA46C4F2136	BEFD8058D1CE9482799FD62275A 2019A84E47F592E1B618D17E563C 6540301A4
15	15	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 AE55CBBBB2DE ABEE4F6	ECC	384 bit	ecdsa- with- SHA384	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2047 23:59:00	D06744F750FD6F6D0874564 8472C70762E93C047	843C2B01DF6A1FDBAF54F7F640F4 1187F1818A5E429EB457EF62701A AF2F5AD6



CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
16	16	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 2047 23:59:00	21A0D0EA2E5CAD02A1C221 322992C8E300753770	1110EAA11E493C0E9448985D207 DC40B7EE2C83EAF087F10BA172E2 AC262F2C5
17	17	CN = Trustgate SMIME RSA Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate SMIME RSA Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	12c84b2179f7b95c 223e51927c51ee99	RSA	384 bit	Sha384WithRSAEncryption	Monday, 9 September, 2024 0:00:00 AM	Wednesday, 8 September, 2049 23:59:00 AM	03f90b3c5a1dcd44a155a5f8 cfe8bb456e24b8d5	504B5D7CD5324FB393817075F3 BBDCEB990EC4C930CCD35E374F9 7D426B1DA0EB
18	18	CN = Trustgate SMIME ECC Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate SMIME ECC Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	0091deb6bb1345e49 4052f4d8108d0919e	ECC	384 bit	ecdsa-with-SHA384	Monday, 9 September, 2024 0:00:00 AM	Wednesday, 8 September, 2049 23:59:00 AM	bd2b7d05bb5f13cca3410ce f2ffaa3440c3d756b	0E09801EB903A6F8DE6EF8 6799296C74B89AB8680C0A F3F2D870EAB6A095F63F



CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
19	19	CN = Trustgate SMIME Enterprise RSA Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate SMIME Enterprise RSA Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	4109174639de3a04b828d36ea78d04c0	RSA	384 bit	Sha384WithRSAEncryption	Monday, 9 September, 2024 0:00:00 AM	Wednesday, 8 September, 2049 23:59:00 AM	8c0f3cee93c1ecbbbaba98054cf56fad00c9a749	4027859768646C2235DD86CDF7D82AC345AA7F71F742DDFACE2A2D6FD51B41AC
20	20	CN = Trustgate SMIME Enterprise ECC Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate SMIME Enterprise ECC Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	7eb1f303670712bdb1d9a7342f64281a	ECC	384 bit	ecdsa-with-SHA384	Tuesday, 9 September, 2024 0:00:00 AM	Wednesday, 8 September, 2049 23:59:00 AM	4a2d6d1a968565f42b2c12e79b8210e6403d2823	E766F25782559C75324FDCCC53DDED1DE0A7BB16791CCBD0657EA873BECDACCA
21	21	CN = Trustgate TLS Basic RSA Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate TLS Basic RSA Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	18ca67cce70774e9d2c250e954647a2b	RSA	384 bit	Sha384WithRSAEncryption	Tuesday, 10 September, 2024 00:00:00 AM	Thursday, 9 September, 2049 23:59:00 AM	83222e8f646af9903a43921d9c76a24dff7a19b8	002D96A8B5E7087B3B3CCC9ECFECF89FAA124DE61F390889C3C5FA29F16A9D6A



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CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
22	22	CN = Trustgate TLS RSA Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate TLS RSA Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	71d237a2e3e87fcb41 f2c1bad4b07d2f	RSA	384 bit	Sha384W ithRSAEn ryption	Tuesday, 10 September, 2024 00:00:00 AM	Thursday, 9 September, 2049 23:59:00 AM	d940c28832be18dec6ca58 2419db8b01bf843b09	B622543BC97CBD8C8D0890 B36C4E613B105A8AF6C69B85 2B38B7D89B0AE0725B
23	23	CN = Trustgate TLS High Assurance RSA Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate TLS High Assurance RSA Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	0ea5a9c064eb815 bc018ac1ee0a82fc1	RSA	384 bit	Sha384W ithRSAEn ryption	Tuesday, 10 September, 2024 00:00:00 AM	Thursday, 9 September, 2049 23:59:00 AM	84c1c69f02dad25dd796 d880e5992aed144e0380	455FEC3946F62073AFD03C7 B701E4188BB54EEB23D438599 EAFFA51CAB9F86D5
24	24	CN = Trustgate TLS Basic ECC Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate TLS Basic ECC Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	00a29d37de5a72c989 a01c842f10641601	ECC	384 bit	ecdsa- with- SHA384	Tuesday, 10 September, 2024 00:00:00 AM	Thursday, 9 September, 2049 23:59:00 AM	dc1012f640e72a059269 f7d8692a5f89e02b84cf	6D0139F87DF6A4E18005AD41 E11E29748FF44A7FB7A2429E5A 4441AD65225322



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CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
25	25	CN = Trustgate TLS ECC Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate TLS ECC Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	64acc74ac2c7ca0940 954411db6e4235	ECC	384 bit	ecdsa- with- SHA384	Tuesday, 10 September, 2024 00:00:00 AM	Thursday, 9 September, 2049 23:59:00 AM	d5d6bba6cf96c33b88311 856f410085eceb53b9b	7E3790A513679E0E21A53B7 ECCCC0CEC8B8B3649E15ABCD 481C5ABB00CD0869AE
26	26	CN = Trustgate TLS High Assurance ECC Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate TLS High Assurance ECC Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	00f811b549dfee67978 ad82b9cf29a8508	ECC	384 bit	ecdsa- with- SHA384	Tuesday, 10 September, 2024 00:00:00 AM	Thursday, 9 September, 2049 23:59:00 AM	11bf629fba9cb7d33ea29 e37c38b3015709f8aa3	8FE689549B5A060DFE2C2C 7052434C5013CD9BCA106A41 3EBA9021515BB1E5EB



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 955A6538B04 1	RSA	3072 bit	Sha384W ithRSAEn ryption	Wednesday, 6 April 2022 00:00:00	Saturday, 4 April 2037 23:59:00	AB604E47E04232B979 4441F682AB37EFB9F CB059	1EA22856E474C9CF5B90F5117E17 595 A0FBE7E1AA3D172067676BED130 C52CE6
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	4439E614090 6C 826B709501B EC 8785ED	RSA	3072 bit	Sha384W ithRSAEn ryption	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2037 23:59:00	1623FB16A21D47AEB D2149CEBF69A08 4DEF9	45CD58326CC8D3637C458671707 2A384 9AA801B69811639AAE05CD53C1 E59BCE



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CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
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	00A9EA80B7D 36 E51DD8C6FD 9D5 CCBFA616	RSA	3072 bit	Sha384W ithRSAEn ryption	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2037 23:59:00	7B239AF4D4285041C 6A92550A1CDABAF21 3A7F38	8E800BF38414B142440CD175398 D29075C6946F0EC048A02357DC C5BEADEA32C
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	559e48dc4a2 4dec 8df91fbc00a0 f6e97	ECC	384 bit	ecdsa- with- SHA384	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2037 23:59:00	68F7475232F55AA586 F9C0EE65349FA46C4F2 136	27A491B41594F31517130E4B7EA 94EB38C529358E0987E48849E3F9 BC8C6D166



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	53eed85c50ef fee 9195b5606af1 0c 569	ECC	384 bit	ecdsa- with- SHA384	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2037 23:59:00	D06744F750FD6F6D0 8745648472C70762E 93C047	FB5EF4B679D073B4D0C4DFA4692 88A0C 3BB949CFF7699A6141B46E2B1ED AC017
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	00880e69fe2d be 15590c75e3a 83 f8f330a	ECC	384 bit	ecdsa- with- SHA384	Wednesday, 6 April 2022 00:00:00	Thursday, 4 April 2037 23:59:00	21A0D0EA2E5CAD02A 1C221322992C8E30075 3770	C1D86D24AAE0EF5FB7070DFBB 685AAC62F0E4420907DA5C26B2 4BAE96A39BDCE



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 2 Root Certificate Authority O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MSC Trustgate.com Class 2 MPKI CA O = MSC Trustgate.com Sdn. Trustgate.com Sdn. Bhd. C = MY	74F79FEA5 98446 997A1CF7D 53E0 E797A	RSA	2048 bit	sha256W ithRSAEn ryption	Thursday, 19 October, 2017 00:00:00	Monday, 18 October, 2027 23:59:59	8A904F921FBD19396012F93F E75F2F5716C42286	CC6ADC88D783574EA3E4F5114FF 3AE4DB5B1470934242C62471B12 4A419C2F94
2	2	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	029F186398 09BE2 9E1F9B4D7 47ED8 AF4	RSA	2048 bit	sha256W ithRSAEn ryption	Friday, 12 August, 2016 00:00:00 AM	Tuesday, 11 August, 2026 23:59:59	555CAAC636B361BF30A441A CBA2D9BDF58D28401	A61D795B0EF27E96848585C21 87C9476645528697ABE50BA36 92F03663F08748



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CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
3	3	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	4CB88BB74BB5B3F92B5636858 45A1B2F2810B278	A4166F2E0125B553E84CBA1B7D2 40369AB2A5AB1846C0EF14E2332 CEBD39E180
4	4	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	sha256WithRSAEncryption	Wednesday December 19 2018, 00:00:00	Sunday December 18 2033, 23:59:59	AB539E3D6E30 3789042BB25A CE85BC781D94 FDD9	D0D6BA9EA1822C1C57F96F39BEE2 A47A431889 B7FD4C3BA25FB2200DC1873EBF



CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
5	5	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	sha256W ithRSAEn ryption	Tuesday, 17 January, 2017 00:00:00	Sunday, 16 January, 2032 23:59:59	EEE08F65BBEBB 49B0933497A7 50558DC2302B 9D3	F26EDD6166A7507C20C641D29613 49 E1875C2144C040D507EEA6EA7E1 73F43D7
6	6	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	67AC1B817817B9C626D6D3E8487A 1 C7FEC8AA27336D50148580F88BB 67F FB7FF



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CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
7	7	CN = Trustgate 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	091538A9476A4F6A6956F31B1339 92 536881C28323D19B57E2C5D91EB4 7 70B22
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 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	F040B8C96223510A3190E0E852331 5 9986BD26187D11C909D65AB8E0D 29 8AA22



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CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
9	9	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, 2024 23:59:59	3F8471DB708F 0D0199B845A4 BF5BD0DA8206 03B5	2D01696CC852C4CE5317778A9FA1 6 BBEA14CDEE10F5FBA91A3B37D8FF 5 2768E5
10	10	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	567EF5A4C14641BC6B46452540F18 7 B5686407DF4BDD51E5A3B1C79E67 8 F97B8
11	11	CN=MyTrust Class 2 ECC Root CA OU=MyTrust	CN = MyLawyer ID CA OU = MyTrust Gateway O = MSC Trustgate.com Sdn. Bhd.	4A4418E 9745A08 20A6788 F2A9858	ECC	256 bit	ecdsa- with- SHA384	Wednesday, 9 December, 2020 00:00:00	Saturday, 8 December, 2025 23:59:59	11F11C8192FF9 0D924D4349DE B647AB0288C1 E14	3B89B1CED28ED8045BA39015FAE B6 C7FBF7D5E6A046B2F0198B846D7 BE DA0006



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CA #	CERT #	Issuer	Subject	Serial	Key Algorithm	Key Size	Digest Algorithm	Not Before	Not After	SKI	SHA256 Fingerprint
		Gateway O=MSC Trustgate.com Sdn. Bhd C = MY	C = MY	41D7							



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12	12	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	8EA69844C4A6BDA29FC13FD65A2 37 1E9E689C22C1BF6585432406B527F 8 6730F
13	13	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	sha256W ithRSAEn ryption	Thursday, 17 August, 2017 00:00:00	Monday, 16 August, 2027 23:59:59	545F5B34BC3A CC4F2D9B47D8 58FBEF3673C2 A9B4	35F1FAF93C2FAB2BF302F551525C5 87 FD4D434BB6BB247ED75B50DB0F 2FE2AB3
14	14	CN = MyTrust Class 2 RSA Root CA OU = MyTrust Gateway	CN = MyTrust Class 2 RSA Enterprise CA OU = MyTrust Gateway	7306EB9 7981BB4 2A3190C AACA7BE 3382	RSA	2048 bit	sha256W ithRSAEn ryption	Thursday, 17 August, 2017 00:00:00	Monday, 16 August, 2027 23:59:59	60D7F177ED65 8E5EB4BF92489 18C165E0A8E4 578	1B1EE0498319BF0A223D4917A41A 45 4D4EA08F44C5C8BD26F651212563 7 7CB6A



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15	15	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	B70119C3B78800839F1A5246CB1D F5 4F2F148012F785371755669B278D0 3 84AF
16	16	CN=MyTrust Digital ID Root CA OU=MyTrust Gateway O=MSC Trustgate.com Sdn. Bhd C=MY	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	D42F0C30DD9896F8E0EDED01FC44 9 4F317B7DC7E6530590EDDB4D8422 8 050C99
17	17	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	94B349BC4BE13041EA9A47315CE2 2E 0EA327873FADA258EDC99B91F56 F0 F8439



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18	18	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	00ec4a1578a32003767f5b20b80b0dad05	RSA	2048 bit	Sha384withRSAEncryption	Thursday, 7 April 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	D47BC6C114B CF57826BC6D2 C3E7515174BA 205C0	80689FEA931C13B6399096B44989 CF 2DDB3BB42DBFBAC25D56D274B9F EC 23968
19	19	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	00b52e33ec2c56b59a04965d35d17dc028	RSA	2048 bit	Sha384withRSAEncryption	Thursday, 7 April 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	D5B5C719032D 3BC09960623E5 E6CE227D20A38D 9	D25E03BDBF23BF7772167268834F1 FFC094CEF1D9A27C320FEB8320EF1 81 3DBC
20	20	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	00c3af2ed14fde0fe371612dbff8bd9388	RSA	2048 bit	Sha384withRSAEncryption	Thursday, 7 April 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	AB4BA7463A645D FCA 85DEED6AC080A9 CE7 6345E0	F6330ED89B22D8C06E46B2F733DA 812374CD853B89EF1D6222B9162B 0 A00CAFD
21	21	CN = Trustgate ID Root CA O = MSC	CN = Trustgate SMIME Individual CA O = MSC	0085834d4e496c6aa2dfa2f8368b47bc88	RSA	2048 bit	Sha384withRSAEncryption	Thursday, 7 April 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	2047FCB34BF41 B3295D7D5ACD 57B27A986C71 DD9	2CFE9402F6DDAAA69154A541D71 3B8B 7C7F83D33FAA696F8F0D1FB8727 1F3AE0



		Trustgate.com Sdn. Bhd. C = MY	Trustgate.com Sdn. Bhd. C = MY								
22	22	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	00dcd1aaf8b04 1f1478e24cce037 454559	RSA	2048 bit	Sha384withRSAEncryption	Thursday, 7 April 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	F28CC1BF53F6A50B4DAB6E3EC8268BF783628A24	B4AEF17549780191EEF9E9592D40E378 CE491781C0066B4D82E4F5D67B3C0134
23	23	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	32d31f77b35a0212203c915c2 bd63a00	RSA	2048 bit	Sha384withRSAEncryption	Thursday, 7 April 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	7D790A3DA6DD67567FF68DC6A047C628D8F5BC69	CA3A2B1EA210207F7D7A08BBC86EFDD 391B1726EC7DD5357CC7576B7092C58CF
24	24	CN = Trustgate MPKI Root CA O = MSC Trustgate.com Sdn. Bhd.	CN = Trustgate MPKI Individual Subscriber CA O = MSC Trustgate.com Sdn. Bhd. C = MY	008020df6b273f58369e9ed911ecfed0ee	RSA	2048 bit	Sha384withRSAEncryption	Thursday, 7 April 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	780DDBEB312DC28 D25BF5F3C1DA5BB 33F84AD495	2685AD25E4393E39944F95FEACB704261 DD88BFD3100A06756A563D2CABB499DA



		C = MY									
25	25	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	Sha384withRSAEncryption	Wednesday, 27 April 2022 00:00:00	Saturday, 25 April, 2037 23:59:00	D64B037E1A9C7 63 B070E954ADBF8 2252 A6BD1E20	0AE0DF704E86B6845CD0F94B0A4A 51 F27E8A5194D39A94BF32560F09A CEA4F88
26	26	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	Sha384withRSAEncryption	Thursday, 7 April 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	EB657009E9359F 9 D65E6CDFC5526 D 1371D5E3779	962AD5D1976B0F65895788371795 A 1D4DEA139B82974E0E8E1EE518A EC1D6713
27	27	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	Sha384withRSAEncryption	Thursday, 7 April 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	9DE185EC63061 A 154FAF4919442F B5 CCAED1EE78	85FD130D83DBE0049818DCDB122 03 F6C16616289CE7EE2E6C14F03BD 29FADA64



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28	28	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	305eba080a1d6f877f0cbe469ef5877f	RSA	2048 bit	Sha384withRSAEncryption	Wednesday, 27 April 2022 00:00:00	Saturday, 25 April, 2037 23:59:00	E5C309F05853E D 34158451BDD47 D 04F4BA99C254	AC717550BB1446C617128B723E36D46B9 CDE7AD58D89F2AE325BDD13036E95C0
29	29	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	02F72A5AFAA34A 696 DCD170CF8248E7 E3C 450715	FBE9A14D3CAA3F72D0A402E5AE41581 EAF1D7A79F12B4E3E722450B8372F1205
30	30	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	7327D516DB0F3 19573 F64AF3B287BC4 E2E8 504E4	E623BD036F1C56E664536DE0647104948 16CEE48BCD5A5F36AAD744AC31CEF44



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31	31	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	104ee2d2031 bbb8ac91f122 845ef45e1	RSA	2048 bit	Sha384withRSAEncryption	Wednesday, 27 April 2022 00:00:00	Saturday, 25 April, 2037 23:59:00	0B0F86D741829 B0EFE 5CCC3744D6F0A 8034B DCBF	56B97166434D8BDE298B353F6F8 00A70 BE185A23FF97274EE0A7765CEAE B78D0
32	32	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	2041904eaf1 b4af03c4f7f53 cc74a83f	ECC	384 bits	ecdsa-with-SHA384	Thursday, 7 April, 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	6BC9C97B0423D 3DE8FF 444F5DD6EA687 027A 9880	7348112B9D8DF0042E920E202D5 32F6 CA89A352BEDC59B8E85947C86F8 8B5EED
33	33	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	1ff4a876643e 11b201bdb1a 7506b351a	ECC	384 bits	ecdsa-with-SHA384	Thursday, 7 April, 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	C9FEDF4D25307 080668 F63956F3D4CD6 F0A49 4F8	6D21B608F47E088FE8265015F25D F0A CD02B4DD6E08D20CBE56BE0DF4 D69FB91



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34	34	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	00a8edafb4e1460420e3a0da807f71d9fd	ECC	384 bits	ecdsa-with-SHA384	Thursday, 7 April, 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	C9FEDF4D25307080668F63956F3D4CD6F0A494F8	3e7cdc64e3fad792a86bb130e1256c261bcd3b9049171b22f7a28439643ecf28
35	35	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	11E5E1621CED21FBCC758681750C3D7692A270A9	E10696EFAF72D5E0D0B62A80E687D4852227C30BAC367768F1451873A5C5BAB1
36	36	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	00cee0600a39b695fbbf7f1099a2a478a3	ECC	384 bits	ecdsa-with-SHA384	Thursday, 7 April, 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	456671A5C31F674695C1A83A3EF4CC991881F546	9A7BC4FDC454F1B920BFF8A7E7D578CC805F2C0C09B7ADE2B68C484EAF7DA0C
37	37	CN = Trustgate ECC MPKI Root CA O = MSC	CN = GPKI CA ECC - G2 O = MSC Trustgate.com Sdn.	008d3842634d79	ECC	384 bits	ecdsa-with-SHA384	Thursday, 7 April, 2022 00:00:00	Sunday, 5 April, 2037 23:59:00	8837629CBF1E5B2312438F4338531BA69707C22E	229028210BE6A3B6176E8F5441B5EE629DA94BF28F425BA997F2E5AD5D7F8812



		Trustgate.com Sdn. Bhd. C = MY	Bhd. OU = MAMPU C = MY	14d84649345da 01 d51a1							
38	38	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 a6fd27381c6b3 fe17bf	ECC	384 bits	ecdsa-with-SHA384	Thursday, 7 April, 2022 00:00:00	Sunday, 5 April 2037 23:59:00	14E872374C9590FB4322 426AFFD4EFF5E3FDFB29	EF4C2488FA68ABAA945445254C3DEB49 EF8269F736593F093493B41C7103ADF3
39	39	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	00c190d449caf f 4d 5368ebaa7e87 1 1ba00	ECC	384 bits	ecdsa-with-SHA384	Wednesday, 27 April 2022 00:00:00	Saturday, 25 April 2037 23:59:00	29BC0D9C211748425DD 9676B6CDAAD7E74D15087	7EC5C9AB617519B1655CB0587B68E668 B974F8A9B098405416159ADA6D03FF3A
40	40	CN = Trustgate ECC MPKI Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = MyTrust365 CA - G2 O = MSC Trustgate.com Sdn. Bhd. C = MY	00F152823318 10DEDE13E4FC 69A6C8AEDE	ECC	384 bits	ecdsa-with-SHA384	Wednesday, 3 May, 2023 00:00:00 AM	Saturday, 1 May, 2038 23:59:00 AM	9c029a3f8f21a069f16171014ac 7243c5e676995	F4619278085925F5703443FF2901238D422D30F975DB0E4D5DED00581EE92379



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41	41	CN = Trustgate SMIME RSA Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate SMIME Basic RSA CA O = MSC Trustgate.com Sdn. Bhd. C = MY	00cf761633616 fdda9c66142ce 699a90af	RSA	2048 bit	Sha384withRSAEncryption	Monday, 9 September, 2024 00:00:00 AM	Thursday, 8 September, 2039 23:59:00 AM	11e3e9c41e9121261524f194e1 eb5ad8b1005f3d	6AABC6A71C014A2AECBE446A9C9 8EC05908F63B2C2D21536DABE386 F719A3606
42	42	CN = Trustgate SMIME RSA Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate SMIME Standard RSA CA O = MSC Trustgate.com Sdn. Bhd. C = MY	75c22d006b94 12676b58b92e 776da46a	RSA	2048 bit	Sha384withRSAEncryption	Monday, 9 September 2024 00:00:00 AM	Thursday, 8 September, 2039 23:59:00 AM	7ed98d7df4bb8bf76395477bbc 152b47fef50a4b	A14A4C5C832BF6E9CE159B5245A7 0EFC2A2FA3560EC2191D084246BC 72D8B20F
43	43	CN = Trustgate SMIME Enterprise RSA Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate SMIME Enterprise RSA CA O = MSC Trustgate.com Sdn. Bhd. C = MY	00b9f700a0322 a620ba89224d 22285f67d	RSA	2048 bit	Sha384withRSAEncryption	Monday, 9 September 2024 00:00:00 AM	Thursday, 8 September, 2039 23:59:00 AM	66ad1c23221de899b41b96f8e4 5e1196546787db	98F9400AB4E27EFE6E40039AF79ED 67D8F3B3827E84CAF63010CDF551 5D4A223
44	44	CN = Trustgate SMIME Enterprise RSA Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate SMIME Organization RSA CA O = MSC Trustgate.com Sdn. Bhd. C = MY	46ea29770949 107bf18e3acc7 bab6b18	RSA	2048 bit	Sha384withRSAEncryption	Monday, 9 September 2024 00:00:00 AM	Thursday, 8 September, 2039 23:59:00 AM	f89a1072f545e53b1ce1b3e77d 84f78f2d87b0c5	6BBE5F6621F8AC75B50D68B447B5 54E28649E105418AC298BC84F529 81AFF658



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45	45	CN = Trustgate SMIME ECC Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate SMIME Basic ECC CA O = MSC Trustgate.com Sdn. Bhd. C = MY	50a68d9e06b4 6a8ead0d792f6 3565547	ECC	384 bit	ecdsa- with- SHA384	Monday, 9 September 2024 00:00:00 AM	Thursday, 8 September, 2039 23:59:00 AM	1f8b256250ba30879cea47f6d4 dbe13b99ad8da3	DC453E098780C277DD3780578D0 001EEE614BBA885F89211E477CA3E 3871EC6F
46	46	CN = Trustgate SMIME ECC Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate SMIME Standard ECC CA O = MSC Trustgate.com Sdn. Bhd. C = MY	00847426ee96 4a21479175e5 433f8ba6d3	ECC	384 bit	ecdsa- with- SHA384	Monday, 9 September 2024 00:00:00 AM	Thursday, 8 September, 2039 23:59:00 AM	ee4f35fa44afdefc78f2e1eaf039 dc8f9504ae29	B13AC2DA0B36F819FFB56DAC80 A9C48A4C1E83D37E9EB40F57B7E2 90C22EEB9
47	47	CN = Trustgate SMIME Enterprise ECC Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate SMIME Enterprise ECC CA O = MSC Trustgate.com Sdn. Bhd. C = MY	09867beebeae 1508a3be5262 e4d26efd	ECC	384 bit	ecdsa- with- SHA384	Monday, 9 September 2024 00:00:00 AM	Thursday, 8 September, 2039 23:59:00 AM	bb30e70ff2d0570a306b24dae8 a1d9f54bc27784	6DC156503B110B7D2BA0CFB0CF91 F1CEC702A1A69CDAD4EC81B68F8 FBACA48E9
48	48	CN = Trustgate SMIME Enterprise ECC Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate SMIME Organization ECC CA O = MSC Trustgate.com Sdn. Bhd. C = MY	2aebfd22983f8 24dab9121bb8 2b13883	ECC	384 bit	ecdsa- with- SHA384	Monday, 9 September 2024 00:00:00 AM	Thursday, 8 September, 2039 23:59:00 AM	9c8f986977cd12b9bddfdcd31c 7f4572aa2033c1	DE81B6BF29E0B2FC37F9E27848020 1A53515AA476ABBCAB454929EA9 7A3740AF



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49	49	CN = Trustgate TLS Basic RSA Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate TLS DV RSA CA O = MSC Trustgate.com Sdn. Bhd. C = MY	00d08f36c5483595abf8d711850d726224	RSA	2048 bit	Sha384withRSAEncryption	Tuesday, 10 September, 2024 00:00:00 AM	Friday, 9 September, 2039 23:59:00 AM	01f6b50bc5cb49e6fc7e1ade7df85714e03057a	B900574E70C3925FA8A64CB0E0B1E349F87A5B658F84C9C2F33EE4A793A2DED9
50	50	CN = Trustgate TLS RSA Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate TLS OV RSA CA O = MSC Trustgate.com Sdn. Bhd. C = MY	7a08d1746cbd280c5467649fe6ca9f2a	RSA	2048 bit	Sha384withRSAEncryption	Tuesday, 10 September, 2024 00:00:00 AM	Friday, 9 September, 2039 23:59:00 AM	99c81532f155e815b47158303f90a38edd2c6b48	EAB6A9F072FC20161375977CF7B2469610790DAF9A277C509378E98D483794E3
51	51	CN = Trustgate TLS High Assurance RSA Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate TLS EV RSA CA O = MSC Trustgate.com Sdn. Bhd. C = MY	00f52df047297866a29f3e97106c95d2da	RSA	2048 bit	Sha384withRSAEncryption	Tuesday, 10 September, 2024 00:00:00 AM	Friday, 9 September, 2039 23:59:00 AM	111e2aa1f319d775f19360516af99875994e5d0c	4E035B43435561F36F3F4DA4706268747F8263FA21778EDF1F5F29C3C09893F1
52	52	CN = Trustgate TLS Basic ECC Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate TLS DV ECC CA O = MSC Trustgate.com Sdn. Bhd. C = MY	7f1393d035d770c9281486959b9ce718	ECC	384 bit	ecdsa-with-SHA384	Tuesday, 10 September, 2024 00:00:00 AM	Friday, 9 September, 2039 23:59:00 AM	1d62c54a1bd48f5e56066daa626c02529b20e241	F8908E9D0066F8535B6AF52FBEE7988438C421DCC13EF8CB1DC2C54888FBC273



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53	53	CN = Trustgate TLS ECC Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate TLS OV ECC CA O = MSC Trustgate.com Sdn. Bhd. C = MY	00b30a9e3ff81f 2cb44edc8816 e4d03a49	ECC	384 bit	ecdsa- with- SHA384	Tuesday, 10 September, 2024 00:00:00 AM	Friday, 9 September, 2039 23:59:00 AM	96afff26cfcb2d230e3ddc3baa3 27a216b0c7eab	448C5ECB1B9B2E390C05C2F1D4E9 DF32F8BF3C9A10876C5BF94F6C74 AE243C99
54	54	CN = Trustgate TLS High Assurance ECC Root CA O = MSC Trustgate.com Sdn. Bhd. C = MY	CN = Trustgate TLS EV ECC CA O = MSC Trustgate.com Sdn. Bhd. C = MY	4bb5fbc91e349 c9df9dfaab4a7 79bdcd	ECC	384 bit	ecdsa- with- SHA384	Tuesday, 10 September, 2024 00:00:00 AM	Friday, 9 September, 2039 23:59:00 AM	b4b60f49b479264a7248f5150f dcc852658de2b5	A223DDCD91B2781BD46B085F3BE 48AA63E21177C3B9936066EB3D7A BD4853EFC

