

worldpay
from FIS

EMV Network Keys: Production

March 16, 2023

Visa

Visa 1408 Public Key

RID	A000000003
CAPK Index	08
Expiry Date	12312024
CAPK Modulus	D9FD6ED75D51D0E30664BD157023EAA1FFA871E4DA65672B863D255E81E137A51DE4F72BCC9E44ACE12127F87E263D3AF9DD9CF35CA4A7B01E907000BA85D24954C2FCA3074825DDD4C0C8F186CB020F683E02F2DEAD3969133F06F7845166ACEB57CA0FC2603445469811D293BFEBFAFAB57631B3DD91E796BF850A25012F1AE38F05AA5C4D6D03B1DC2E568612785938BBC9B3CD3A910C1DA55A5A9218ACE0F7A21287752682F15832A678D6E1ED0B
CAPK Exponent	03
Hash Value	20D213126955DE205ADC2FD2822BD22DE21CF9A8

Visa 1984 Public Key

RID	A000000003
CAPK Index	09
Expiry Date	12312031
CAPK Modulus	9D912248DE0A4E39C1A7DDE3F6D2588992C1A4095AFBD1824D1BA74847F2BC4926D2EFD904B4B54954CD189A54C5D1179654F8F9B0D2AB5F0357EB642FEDA95D3912C6576945FAB897E7062CAA44A4AA06B8FE6E3DBA18AF6AE3738E30429EE9BE03427C9D64F695FA8CAB4BFE376853EA34AD1D76BFCAD15908C077FFE6DC5521ECEFD278A96E26F57359FFAEDA19434B937F1AD999DC5C41EB11935B44C18100E857F431A4A5A6BB65114F174C2D7B59FDF237D6BB1DD0916E644D709DED56481477C75D95CDD68254615F7740EC07F330AC5D67BCD75BF23D28A140826C026DBDE971A37CD3EF9B8DF644AC385010501EFC6509D7A41
CAPK Exponent	03
Hash Value	1FF80A40173F52D7D27E0F26A146A1C8CCB29046

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MasterCard

MasterCard 1408 Public Key

RID	A000000004
CAPK Index	05
Expiry Date	12312024
CAPK Modulus	B8048ABC30C90D976336543E3FD7091C8FE4800DF820ED55E7E94813ED00555B573FECA3D84AF6131A651D66CFF4284FB13B635EDD0EE40176D8BF04B7FD1C7BACF9AC7327DFAA8AA72D10DB3B8E70B2DDD811CB4196525EA386ACC33C0D9D4575916469C4E4F53E8E1C912CC618CB22DDE7C3568E90022E6BBA770202E4522A2DD623D180E215BD1D1507FE3DC90CA310D27B3EFC CD8F83DE3052CAD1E48938C68D095AAC91B5F37E28BB49EC7ED597
CAPK Exponent	03
Hash Value	EBFA0D5D06D8CE702DA3EAE890701D45E274C845

MasterCard 1984 Public Key

RID	A000000004
CAPK Index	06
Expiry Date	12312032
CAPK Modulus	CB26FC830B43785B2BCE37C81ED334622F9622F4C89AAE641046B2353433883F307FB7C974162DA72F7A4EC75D9D657336865B8D3023D3D645667625C9A07A6B7A137CF0C64198AE38FC238006FB2603F41F4F3BB9DA1347270F2F5D8C606E420958C5F7D50A71DE30142F70DE468889B5E3A08695B938A50FC980393A9CBCE44AD2D64F630BB33AD3F5F5FD495D31F37818C1D94071342E07F1BEC2194F6035BA5DED3936500EB82DFDA6E8AFB655B1EF3D0D7EBF86B66DD9F29F6B1D324FE8B26CE38AB2013DD13F611E7A594D675C4432350EA244CC34F3873CBA06592987A1D7E852ADC22EF5A2EE28132031E48F74037E3B34AB747F
CAPK Exponent	03
Hash Value	F910A1504D5FFB793D94F3B500765E1ABCAD72D9

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American Express

AMEX 1408 Public Key

RID	A000000025
CAPK Index	0F
Expiry Date	12312024
CAPK Modulus	C8D5AC27A5E1FB89978C7C6479AF993AB3800EB243996FBB2AE26B67B23AC482C4B746005A51AFA7D2D83E894F591A2357B30F85B85627FF15DA12290F70F05766552BA11AD34B7109FA49DE29DCB0109670875A17EA95549E92347B948AA1F045756DE56B707E3863E59A6CBE99C1272EF65FB66CBB4CFF070F36029DD76218B21242645B51CA752AF37E70BE1A84FF31079DC0048E928883EC4FADD497A719385C2BBBEBBC5A66AA5E5655D18034EC5
CAPK Exponent	03
Hash Value	A73472B3AB557493A9BC2179CC8014053B12BAB4

AMEX 1984 Public Key

RID	A000000025
CAPK Index	10
Expiry Date	12312030
CAPK Modulus	CF98DFEDB3D3727965EE7797723355E0751C81D2D3DF4D18EBAB9FB9D49F38C8C4A826B99DC9DEA3F01043D4BF22AC3550E2962A59639B1332156422F788B9C16D40135EFD1BA94147750575E63B6EBC618734C91C1D1BF3EDC2A46A43901668E0FFC136774080E888044F6A1E65DC9AAA8928DACBEB0DB55EA3514686C6A732CEF55EE27CF877F110652694A0E3484C855D882AE191674E25C296205BBB599455176FDD7BBC549F27BA5FE35336F7E29E68D783973199436633C67EE5A680F05160ED12D1665EC83D1997F10FD05BBDBF9433E8F797AEE3E9F02A34228ACE927ABE62B8B9281AD08D3DF5C7379685045D7BA5FCDE58637
CAPK Exponent	03
Hash Value	C729CF2FD262394ABC4CC173506502446AA9B9FD

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Discover

Discover 1408 Public Key

RID	A000000152
CAPK Index	04
Expiry Date	12312024
CAPK Modulus	8EEEC0D6D3857FD558285E49B623B109E6774E06E9476FE1B2FB273685B5A235E955810ADDB5 CDCC2CB6E1A97A07089D7FDE0A548BDC622145CA2DE3C73D6B14F284B3DC1FA056FC0FB281 8BCD7C852F0C97963169F01483CE1A63F0BF899D412AB67C5BBDC8B4F6FB9ABB57E95125363 DBD8F5EBAA9B74ADB93202050341833DEE8E38D28BD175C83A6EA720C262682BEABEA8E955 FE67BD9C2EFF7CB9A9F45DD5BDA4A1EEFB148BC44FFF68D9329FD
CAPK Exponent	03
Hash Value	17F971CAF6B708E5B9165331FBA91593D0C0BF66

Discover 1984 Public Key

RID	A000000152
CAPK Index	05
Expiry Date	12312029
CAPK Modulus	E1200E9F4428EB71A526D6BB44C957F18F27B20BACE978061CCEF23532DBEBFAF654A149701C 14E6A2A7C2ECAC4C92135BE3E9258331DDB0967C3D1D375B996F25B77811CCCC06A153B4CE6 990A51A0258EA8437EDBEB701CB1F335993E3F48458BC1194BAD29BF683D5F3ECB984E31B7B 9D2F6D947B39DEDE0279EE45B47F2F3D4EEEF93F9261F8F5A571AFBFB569C150370A78F6683D 687CB677777B2E7ABEFCFC8F5F93501736997E8310EE0FD87AFAC5DA772BA277F88B44459FCA 563555017CD0D66771437F8B6608AA1A665F88D846403E4C41AFEEDB9729C2B2511CFE228B5 0C1B152B2A60BBF61D8913E086210023A3AA499E423
CAPK Exponent	03
Hash Value	12BCD407B6E627A750FDF629EE8C2C9CC7BA636A

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JCB

JCB 1408 Public Key

RID	A000000065
CAPK Index	12
Expiry Date	12312024
CAPK Modulus	ADF05CD4C5B490B087C3467B0F3043750438848461288BFED6198DD576DC3AD7A7CFA07DB A128C247A8EAB30DC3A30B02FCD7F1C8167965463626FEFF8AB1AA61A4B9AEF09EE12B00984 2A1ABA01ADB4A2B170668781EC92B60F605FD12B2B2A6F1FE734BE510F60DC5D189E401451B 62B4E06851EC20EBFF4522AAC2E9CDC89BC5D8CDE5D633CFD77220FF6BBD4A9B441473CC3C 6FEFC8D13E57C3DE97E1269FA19F655215B23563ED1D1860D8681
CAPK Exponent	03
Hash Value	874B379B7F607DC1CAF87A19E400B6A9E25163E8

JCB 1984 Public Key

RID	A000000065
CAPK Index	14
Expiry Date	12312029
CAPK Modulus	AEE55B9EE00E1ECEB045F61D2DA9A66AB637B43FB5CDBDB22A2FBB25BE061E937E38244EE5 132F530144A3F268907D8FD648863F5A96FED7E42089E93457ADC0E1BC89C58A0DB72675FBC 47FEE9FF33C16ADE6D341936B06B6A6F5EF6F66A4EDD981DF75DA8399C3053F430ECA342437 C23AF423A211AC9F58EAF09B0F837DE9D86C7109DB1646561AA5AF0289AF5514AC64BC2D9D3 6A179BB8A7971E2BFA03A9E48847FD3D63524D43A0E8003547B94A8A75E519DF3177D0A60B C0B4BAB1EA59A2CBB4D2D62354E926E9C7D3BE4181E81BA60F8285A896D17DA8C3242481B6 C405769A39D547C74ED9FF95A70A796046B5EFF36682DC29
CAPK Exponent	03
Hash Value	C0D15F6CD957E491DB56DCDD1CA87A03EBE06B7B

China UnionPay

China UnionPay 1408 Public Key

RID	A000000333
CAPK Index	03
Expiry Date	12312024
CAPK Modulus	B0627DEE87864F9C18C13B9A1F025448BF13C58380C91F4CEBA9F9BCB214FF8414E9B59D6ABA10F941C7331768F47B2127907D857FA39AAF8CE02045DD01619D689EE731C551159BE7EB2D51A372FF56B556E5CB2FDE36E23073A44CA215D6C26CA68847B388E39520E0026E62294B557D6470440CA0AEFC9438C923AEC9B2098D6D3A1AF5E8B1DE36F4B53040109D89B77CAFAF70C26C601ABDF59EEC0FDC8A99089140CD2E817E335175B03B7AA33D
CAPK Exponent	03
Hash Value	87F0CD7C0E86F38F89A66F8C47071A8B88586F26

China UnionPay 1984 Public Key

RID	A000000333
CAPK Index	04
Expiry Date	12312031
CAPK Modulus	BC853E6B5365E89E7EE9317C94B02D0ABB0DBD91C05A224A2554AA29ED9FCB9D86EB9CCBB322A57811F86188AAC7351C72BD9EF196C5A01ACEF7A4EB0D2AD63D9E6AC2E7836547CB1595C68BCBAFD0F6728760F3A7CA7B97301B7E0220184EFC4F653008D93CE098C0D93B45201096D1ADFF4CF1F9FC02AF759DA27CD6DFD6D789B099F16F378B6100334E63F3D35F3251A5EC78693731F5233519CDB380F5AB8C0F02728E91D469ABD0EAE0D93B1CC66CE127B29C7D77441A49D09FCA5D6D9762FC74C31BB506C8BAE3C79AD6C2578775B95956B5370D1D0519E37906B384736233251E8F09AD79DFBE2C6ABFADAC8E4D8624318C27DAF1
CAPK Exponent	03
Hash Value	F527081CF371DD7E1FD4FA414A665036E0F5E6E5

WEX

WEX 1408 Public Key

RID	A000000768
CAPK Index	FF
Expiry Date	12312027
CAPK Modulus	86EFCDB87055ED668CF037EC4177B05B102C01EBAF0318CA2362698012ECED53CF176A06DE4F8A113CA091E7E9BDA6A715E3D89926895DFC320574D02EFFBFF1B81F158B9896651EFF8CBC548C51E7BD68338F5A11171C4540E194A91D9D36A6C4132D3799DF911F32132A0B5CCC632200EFBE5752DCCF930F2B7AB76B81588894604215B193CBF160C5BAA32C89F450D15CF0E6B866D3AA249960B69B18B9B2575D741BB2089102A96E6A42067EF6BB
CAPK Exponent	03
Hash Value	E7ABF106A6704AE58CBA4ACA509FD9EC33A147D5

WEX 1984 Public Key

RID	A000000768
CAPK Index	F2
Expiry Date	12312027
CAPK Modulus	9318623777A684FA329C2DC24AA398678DE27CB2C547C6DB6542125409528823D75F42455789C2F7705D8B77EEA7674F923E3D657C0AB8ADF4941ED3AB2877058D30BE31572BF3D570652ED9F3C9E320BA8D96FF000047FEA4582E6BA368D8FF16BE90843657CB7467D4980C9B2ED67333BFBDAE60CAB42D420A34D648816406112186EA397E7155F5EE3858D8CCACA9D11E9D85BC5373FF4B074D3BAC5C3220003B7096614EB1D7FB9216D22D6B7B7695ADDC109A51D0CACFF438A0763F001711B687BAFCD26671FCA21EDD042B1201FCB01D5807C4E94D23CB3D56E3AD16F1F03DB61381FC7F152A391D8A62BCB9D339E12A23A76F9213
CAPK Exponent	03
Hash Value	D8E9DA9B8461A43F469BBD08CD3A52B0B3AA775F

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Interac

Interac 1408 Public Key

RID	A000000277
CAPK Index	06
Expiry Date	12312024
CAPK Modulus	DB43A71FF30392069A9600143DCB628A4DABDFE69E31CB6151D9A2EB18A53ABA1EF75518CD3EDA29B96D55B002870A649AAFC65CE472BD01352C2D2E77D4EE352B3A64BC2CC170E29D426D7B3317BD3C4FC32EA2151CA0F1071A2ACFECDD70468D3EBC7A44440DD63EC9499F302348BB6235F964BF3CAA30B29939B9901C42B5540BF4F837DD898F5392076F9B95F0EBCB6846374FFE71895A422775D95CABA9C25510627D4F7B57A3DBD755608EDD843
CAPK Exponent	010001
Hash Value	D18AB9F1518FBC0F6EB0EEFB00C5D07CAE8A2197

Interac 1984 Public Key

RID	A000000277
CAPK Index	08
Expiry Date	12312030
CAPK Modulus	AB1B0667B2A68883477B2ED48F3068CB0F57ABBEC93E0AF40180BACD895120E36E2710784599CDE9035550D96BD6C5CEA55C4E8C88A5D0A81CE1309559BCE91930C7AA3E3D0A2D79A6036BE03C4000658A78ECA742034BE5FB0E08D530C7FF9458211E78E33E3803F8DFF24A4117EE0EDFE7A98CB3AE2ECCB2A3C3A75C32512EDD1183CF218BE1642FA78430A18A495E6FEFA7B98860C6FCBFD27537D34F4E55B9CBDEB19DF029BDF00993E1A2E0B9E89E1B49777FCB7C1610CDA94A488C9177908B75C48DFE3F8BBD52886233B44B1A58373D5AFD0F309ABB939C39DF95D923F76B7300E83D182C2922EBB9FD018867A0E6D179EFF8C87
CAPK Exponent	010001
Hash Value	46EAD2ED0B8645D4DCB2AE4B1D285A0632B452D4