

	P192 K163 B163	P224 K233 B233	P256 K283 B283	P384 K409 B409	P521 K571 B571

Hash algorithm	SHA-1	SHA-224	SHA-256	SHA-384	SHA-512
Hash length	160	224	256	384	512
KDF	Concatenation KDF				
Derived Key Material length	320	448	512	768	1024
MacKey length	80	112	128	192	256
MacTag length	160	224	256	384	512
ID_U	"ALICE"				
ID_V	"BOBBY"				
Message Strings (Unilateral)	KC_1_U KC_1_V				
Message Strings (Bilateral)	KC_2_U KC_2_V				
OtherInfo for KDF					
AlgorithmID	123456789ABCDEF0				
PartyUInfo	414C494345313233				
PartyVInfo	424F424259343536				
SupPubInfo	not used				

OtherInfo for KDF (StaticUnifiedModel) requires the PartyUInfo to contain a nonce therefore the value is:

```
PartyUInfo = 414C494345313233 || nonceU_byte_len || nonceU
```

FullUnifiedCDH(P-192)

dsU is

20F234D3 2CD7EDD8 BFC5BD96 DAE60859 3E38E894 2324FDE8

QsU_x is

896C0B5E E70F55B3 B463101C 1BFB86D3 A7C6C5DA 354F6214

QsU_y is

40B85F14 4536C6F5 4BC85BED 3820A74A BF58BC78 2D1DB241

dsV is

0F9E539A E24C3A90 5B4ED7CE 4E2EBAD4 E4B77491 2623284B

QsV_x is

09F9D21C 7FD98D09 7B4C3AE7 64300040 3DB445B7 49C4B441

QsV_y is

43CB6933 62FD117C 79F255D9 DD6BBE75 F43BE57D 14E28685

deU is

323FA316 9D8E9C65 93F59476 BC142000 AB5BE0E2 49C43426

QeU_x is

CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612

QeU_y is

68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A

deV is

631F95BB 4A67632C 9C476EEE 9AB695AB 240A0499 307FCF62

QeV_x is

519A1216 80E00454 66BA21DF 2EEE47F5 973B5005 77EF13D5

QeV_y is

FF613AB4 D64CEE3A 20875BDB 10F953F6 B30CA072 C60AA57F

no Key Confirmation

Zs is

0FB12A1B 3BEBF263 EE216413 ED06A84A 12EB5111 59F1337D

Ze is

AD420182 633F8526 BFE954AC DA376F05 E5FF4F83 7F54FEBE

Z is

AD420182 633F8526 BFE954AC DA376F05 E5FF4F83 7F54FEBE
0FB12A1B 3BEBF263 EE216413 ED06A84A 12EB5111 59F1337D

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

6FEF442F C17A7E2B 0C9DECE0 E47A5748
ACB46AF1 98D76747 0F28A104 B56130AE B01009A4 5682A5E1

KeyData is

6FEF442F C17A7E2B 0C9DECE0 E47A5748
ACB46AF1 98D76747 0F28A104 B56130AE B01009A4 5682A5E1

Scheme Initiator, Key Confirmation Provider: U to V

Zs is

0FB12A1B 3BEBF263 EE216413 ED06A84A 12EB5111 59F1337D

Ze is

AD420182 633F8526 BFE954AC DA376F05 E5FF4F83 7F54FEBE

Z is

AD420182 633F8526 BFE954AC DA376F05 E5FF4F83 7F54FEBE
0FB12A1B 3BEBF263 EE216413 ED06A84A 12EB5111 59F1337D

OtherInfo is

12345678 9ABCDEFO 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

6FEF
442FC17A 7E2B0C9D ECE0E47A 5748ACB4 6AF198D7 67470F28
A104B561 30AEB010 09A45682 A5E17D62 1894ADB8 ADDCFE57

MacData is

4B435F31 5F55414C 49434542 4F424259
CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612
68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A
519A1216 80E00454 66BA21DF 2EEE47F5 973B5005 77EF13D5
FF613AB4 D64CEE3A 20875BDB 10F953F6 B30CA072 C60AA57F

MacKey is

6FEF 442FC17A 7E2B0C9D

Mtag is

9FC2821F 2F0314E6 7D4ED678 F9F53409 E50F0B6C

KeyData is

ECE0E47A 5748ACB4 6AF198D7 67470F28
A104B561 30AEB010 09A45682 A5E17D62 1894ADB8 ADDCFE57

Scheme Responder, Key Confirmation Provider: V to U

Zs is

0FB12A1B 3BEBF263 EE216413 ED06A84A 12EB5111 59F1337D

Ze is

AD420182 633F8526 BFE954AC DA376F05 E5FF4F83 7F54FEBE

Z is

AD420182 633F8526 BFE954AC DA376F05 E5FF4F83 7F54FEBE
0FB12A1B 3BEBF263 EE216413 ED06A84A 12EB5111 59F1337D

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

442FC17A 7E2B0C9D ECE0E47A 5748ACB4 6AF198D7 67470F28
A104B561 30AEB010 09A45682 A5E17D62 1894ADB8 ADDCFE57
6FEF

MacData is

519A1216 80E00454 66BA21DF 2EEE47F5 973B5005 77EF13D5
FF613AB4 D64CEE3A 20875BDB 10F953F6 B30CA072 C60AA57F
CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612
68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A
4B435F31 5F56424F 42425941 4C494345

MacKey is

6FEF 442FC17A 7E2B0C9D

Mtag is

8CFF7B69 2AD54B6E 72310512 31EC449D 177B75B5

KeyData is

A104B561 30AEB010 09A45682 A5E17D62 1894ADB8 ADDCFE57
ECE0E47A 5748ACB4 6AF198D7 67470F28

Scheme Initiator, Key Confirmation Bilateral

Zs is

0FB12A1B 3BEBF263 EE216413 ED06A84A 12EB5111 59F1337D

Ze is

AD420182 633F8526 BFE954AC DA376F05 E5FF4F83 7F54FEBE

Z is

AD420182 633F8526 BFE954AC DA376F05 E5FF4F83 7F54FEBE
0FB12A1B 3BEBF263 EE216413 ED06A84A 12EB5111 59F1337D

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

442FC17A 7E2B0C9D ECE0E47A 5748ACB4 6AF198D7 67470F28 6FEF
A104B561 30AEB010 09A45682 A5E17D62 1894ADB8 ADDCFE57

U2V

MacData is

4B435F32 5F55414C 49434542 4F424259
CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612
68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A
519A1216 80E00454 66BA21DF 2EEE47F5 973B5005 77EF13D5
FF613AB4 D64CEE3A 20875BDB 10F953F6 B30CA072 C60AA57F

MacKey is

6FEF 442FC17A 7E2B0C9D

Mtag is

0C095ACF 86073288 9A1AE24E E016A615 0DEEC052

V2U

MacData is

4B435F32 5F56424F 42425941 4C494345
519A1216 80E00454 66BA21DF 2EEE47F5 973B5005 77EF13D5
FF613AB4 D64CEE3A 20875BDB 10F953F6 B30CA072 C60AA57F

CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612
68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A

MacKey is

6FEF 442FC17A 7E2B0C9D

Mtag is

5A0177D4 BF7EA587 E1A463BC 8A621FE8 F1DAAF5E

KeyData is

ECE0E47A 5748ACB4 6AF198D7 67470F28
A104B561 30AEB010 09A45682 A5E17D62 1894ADB8 ADDCFE57

FullMQV(P-192)

dsU is

20F234D3 2CD7EDD8 BFC5BD96 DAE60859 3E38E894 2324FDE8

QsU_x is

896C0B5E E70F55B3 B463101C 1BFB86D3 A7C6C5DA 354F6214

QsU_y is

40B85F14 4536C6F5 4BC85BED 3820A74A BF58BC78 2D1DB241

dsV is

0F9E539A E24C3A90 5B4ED7CE 4E2EBAD4 E4B77491 2623284B

QsV_x is

09F9D21C 7FD98D09 7B4C3AE7 64300040 3DB445B7 49C4B441

QsV_y is

43CB6933 62FD117C 79F255D9 DD6BBE75 F43BE57D 14E28685

deU is

323FA316 9D8E9C65 93F59476 BC142000 AB5BE0E2 49C43426

QeU_x is

CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612

QeU_y is

68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A

deV is

631F95BB 4A67632C 9C476EEE 9AB695AB 240A0499 307FCF62

QeV_x is

519A1216 80E00454 66BA21DF 2EEE47F5 973B5005 77EF13D5

QeV_y is

FF613AB4 D64CEE3A 20875BDB 10F953F6 B30CA072 C60AA57F

no Key Confirmation

Z is

AE64AB2B 2B75A94C F8EF24DA 2456BD3A A36DB614 29EA5521

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

CC965A52 D05C949E 52C035FD 03530DB7
EAA40870 2C9D3521 1E672154 12459151 BA2262BD 1E28E56B

KeyData is

CC965A52 D05C949E 52C035FD 03530DB7
EAA40870 2C9D3521 1E672154 12459151 BA2262BD 1E28E56B

Scheme Initiator, Key Confirmation Provider: U to V

Z is

AE64AB2B 2B75A94C F8EF24DA 2456BD3A A36DB614 29EA5521

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

CC96

5A52D05C 949E52C0 35FD0353 0DB7EAA4 08702C9D 35211E67
21541245 9151BA22 62BD1E28 E56BC8BB 2271AEE7 295E6A21

MacData is

4B435F31 5F55414C 49434542 4F424259
CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612
68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A
519A1216 80E00454 66BA21DF 2EEE47F5 973B5005 77EF13D5
FF613AB4 D64CEE3A 20875BDB 10F953F6 B30CA072 C60AA57F

MacKey is

CC96 5A52D05C 949E52C0

Mtag is

BE70E818 DBCCECBD A421D5B7 DA5F0EE9 CDD62A9A

KeyData is

35FD0353 0DB7EAA4 08702C9D 35211E67
21541245 9151BA22 62BD1E28 E56BC8BB 2271AEE7 295E6A21

Scheme Responder, Key Confirmation Provider: V to U

Z is

AE64AB2B 2B75A94C F8EF24DA 2456BD3A A36DB614 29EA5521

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

CC96

5A52D05C 949E52C0 35FD0353 0DB7EAA4 08702C9D 35211E67
21541245 9151BA22 62BD1E28 E56BC8BB 2271AEE7 295E6A21

MacData is

4B435F31 5F56424F 42425941 4C494345
519A1216 80E00454 66BA21DF 2EEE47F5 973B5005 77EF13D5
FF613AB4 D64CEE3A 20875BDB 10F953F6 B30CA072 C60AA57F
CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612
68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A

MacKey is

CC96 5A52D05C 949E52C0

Mtag is

9A20EA41 CE077751 1D774AC0 C3FC896E 9A5FA16E

KeyData is

35FD0353 0DB7EAA4 08702C9D 35211E67
21541245 9151BA22 62BD1E28 E56BC8BB 2271AEE7 295E6A21

Scheme Initiator, Key Confirmation Bilateral

Z is

AE64AB2B 2B75A94C F8EF24DA 2456BD3A A36DB614 29EA5521

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

CC96

5A52D05C 949E52C0 35FD0353 0DB7EAA4 08702C9D 35211E67
21541245 9151BA22 62BD1E28 E56BC8BB 2271AEE7 295E6A21

U2V

MacData is

4B435F32 5F55414C 49434542 4F424259
CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612
68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A
519A1216 80E00454 66BA21DF 2EEE47F5 973B5005 77EF13D5
FF613AB4 D64CEE3A 20875BDB 10F953F6 B30CA072 C60AA57F

MacKey is

CC96 5A52D05C 949E52C0

Mtag is

6C5F6913 A3BF1F7F 16386259 5C50B64B A3DE1A72

V2U

MacData is

4B435F32 5F56424F 42425941 4C494345
519A1216 80E00454 66BA21DF 2EEE47F5 973B5005 77EF13D5
FF613AB4 D64CEE3A 20875BDB 10F953F6 B30CA072 C60AA57F
CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612
68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A

MacKey is

CC96 5A52D05C 949E52C0

Mtag is

B79F0184 B82652A0 E7AB0B68 2956AB3B 2330F57B

KeyData is

35FD0353 0DB7EAA4 08702C9D 35211E67
21541245 9151BA22 62BD1E28 E56BC8BB 2271AEE7 295E6A21

EphemeralUnifiedCDH(P-192)

deU is

323FA316 9D8E9C65 93F59476 BC142000 AB5BE0E2 49C43426

QeU_x is

CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612

QeU_y is

68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A

deV is

631F95BB 4A67632C 9C476EEE 9AB695AB 240A0499 307FCF62

QeV_x is

519A1216 80E00454 66BA21DF 2EEE47F5 973B5005 77EF13D5

QeV_y is

FF613AB4 D64CEE3A 20875BDB 10F953F6 B30CA072 C60AA57F

no Key Confirmation

Z is

AD420182 633F8526 BFE954AC DA376F05 E5FF4F83 7F54FEBE

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

5F17B665 72C57B03 34BB241C E6CB3A9D
585E5C36 257DC087 5DEE4843 56E92FAB CCE2D388 ABF7EAF0

KeyData is

5F17B665 72C57B03 34BB241C E6CB3A9D

585E5C36 257DC087 5DEE4843 56E92FAB CCE2D388 ABF7EAF0

OnePassUnifiedCDH(P-192)

dsU is

20F234D3 2CD7EDD8 BFC5BD96 DAE60859 3E38E894 2324FDE8

QsU_x is

896C0B5E E70F55B3 B463101C 1BFB86D3 A7C6C5DA 354F6214

QsU_y is

40B85F14 4536C6F5 4BC85BED 3820A74A BF58BC78 2D1DB241

dsV is

0F9E539A E24C3A90 5B4ED7CE 4E2EBAD4 E4B77491 2623284B

QsV_x is

09F9D21C 7FD98D09 7B4C3AE7 64300040 3DB445B7 49C4B441

QsV_y is

43CB6933 62FD117C 79F255D9 DD6BBE75 F43BE57D 14E28685

deU is

323FA316 9D8E9C65 93F59476 BC142000 AB5BE0E2 49C43426

QeU_x is

CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612

QeU_y is

68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A

no Key Confirmation

Zs is

0FB12A1B 3BEBF263 EE216413 ED06A84A 12EB5111 59F1337D

Ze is

78B3A426 67DFF154 E395367B 744CBB50 67C03D08 A96D9086

Z is

78B3A426 67DFF154 E395367B 744CBB50 67C03D08 A96D9086
0FB12A1B 3BEBF263 EE216413 ED06A84A 12EB5111 59F1337D

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

73D683F6 751BC092 B68F8DB2 45FBBCF8
74A1EF99 B15E85C1 5097D9EC 246869A2 DDC8083B 52BA25FC

KeyData is

73D683F6 751BC092 B68F8DB2 45FBBCF8
74A1EF99 B15E85C1 5097D9EC 246869A2 DDC8083B 52BA25FC

Scheme Initiator, Key Confirmation Provider: U to V

NonceV is

F8C1FC06 6B3EABFE 0048466C A80DFDFB A3B9F7C3 73173309

Zs is

0FB12A1B 3BEBF263 EE216413 ED06A84A 12EB5111 59F1337D

Ze is

78B3A426 67DFF154 E395367B 744CBB50 67C03D08 A96D9086

Z is

78B3A426 67DFF154 E395367B 744CBB50 67C03D08 A96D9086

0FB12A1B 3BEBF263 EE216413 ED06A84A 12EB5111 59F1337D

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

73D6
83F6751B C092B68F 8DB245FB BCF874A1 EF99B15E 85C15097
D9EC2468 69A2DDC8 083B52BA 25FC5032 25D8C464 84EA6B82

MacData is

4B435F31 5F55414C 49434542 4F424259
CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612
68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A
F8C1FC06 6B3EABFE 0048466C A80DFDFB A3B9F7C3 73173309

MacKey is

73D6 83F6751B C092B68F

Mtag is

78C36193 A4ED0347 F8791C75 0DBB3360 E3691BBD

KeyData is

8DB245FB BCF874A1 EF99B15E 85C15097
D9EC2468 69A2DDC8 083B52BA 25FC5032 25D8C464 84EA6B82

Scheme Responder, Key Confirmation Provider: V to U

NonceU is

F8C1FC06 6B3EABFE 0048466C A80DFDFB A3B9F7C3 73173309

Zs is

0FB12A1B 3BEBF263 EE216413 ED06A84A 12EB5111 59F1337D

Ze is

78B3A426 67DFF154 E395367B 744CBB50 67C03D08 A96D9086

Z is

78B3A426 67DFF154 E395367B 744CBB50 67C03D08 A96D9086
0FB12A1B 3BEBF263 EE216413 ED06A84A 12EB5111 59F1337D

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

73D6
83F6751B C092B68F 8DB245FB BCF874A1 EF99B15E 85C15097
D9EC2468 69A2DDC8 083B52BA 25FC5032 25D8C464 84EA6B82

MacData is

4B435F31 5F56424F 42425941 4C494345
CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612
68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A

MacKey is

73D6 83F6751B C092B68F

Mtag is

93439CD1 94CAEB81 3ECEFFFF D8FC8A5F 9D8BD4E5

KeyData is

8DB245FB BCF874A1 EF99B15E 85C15097
D9EC2468 69A2DDC8 083B52BA 25FC5032 25D8C464 84EA6B82

Scheme Initiator, Key Confirmation Bilateral

NonceV is

F8C1FC06 6B3EABFE 0048466C A80DFDFB A3B9F7C3 73173309

Zs is

0FB12A1B 3BEBF263 EE216413 ED06A84A 12EB5111 59F1337D

Ze is

78B3A426 67DFF154 E395367B 744CBB50 67C03D08 A96D9086

Z is

78B3A426 67DFF154 E395367B 744CBB50 67C03D08 A96D9086
0FB12A1B 3BEBF263 EE216413 ED06A84A 12EB5111 59F1337D

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

73D6
83F6751B C092B68F 8DB245FB BCF874A1 EF99B15E 85C15097
D9EC2468 69A2DDC8 083B52BA 25FC5032 25D8C464 84EA6B82

U2V

MacData is

4B435F32 5F55414C 49434542 4F424259
CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612
68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A
F8C1FC06 6B3EABFE 0048466C A80DFDFB A3B9F7C3 73173309

MacKey is

73D6 83F6751B C092B68F

Mtag is

C12D5D7E 9318520B 9143CEF0 600D1E2E 1BD2C06D

V2U

MacData is

4B435F32 5F56424F 42425941 4C494345
F8C1FC06 6B3EABFE 0048466C A80DFDFB A3B9F7C3 73173309
CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612
68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A

MackKey is

73D6 83F6751B C092B68F

Mtag is

33550A01 43DA603D E0843426 378CEDD0 E6D49C69

KeyData is

8DB245FB BCF874A1 EF99B15E 85C15097
D9EC2468 69A2DDC8 083B52BA 25FC5032 25D8C464 84EA6B82

OnePassMQV(P-192)

dsU is

20F234D3 2CD7EDD8 BFC5BD96 DAE60859 3E38E894 2324FDE8

QsU_x is

896C0B5E E70F55B3 B463101C 1BFB86D3 A7C6C5DA 354F6214

QsU_y is

40B85F14 4536C6F5 4BC85BED 3820A74A BF58BC78 2D1DB241

dsV is

0F9E539A E24C3A90 5B4ED7CE 4E2EBAD4 E4B77491 2623284B

QsV_x is

09F9D21C 7FD98D09 7B4C3AE7 64300040 3DB445B7 49C4B441

QsV_y is

43CB6933 62FD117C 79F255D9 DD6BBE75 F43BE57D 14E28685

deU is

323FA316 9D8E9C65 93F59476 BC142000 AB5BE0E2 49C43426

QeU_x is
CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612

QeU_y is
68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A

no Key Confirmation
Z is

28D8AB53 9969B2C3 5979A92F D6462417 7A7191FF E70DE82D

OtherInfo is
12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is
B291C225 89BF6962 261ECD0A 37E0AA82
BABD90BC 9EBDFEB2 479A6859 59EB317F FCB74243 8F0FE879

KeyData is
B291C225 89BF6962 261ECD0A 37E0AA82
BABD90BC 9EBDFEB2 479A6859 59EB317F FCB74243 8F0FE879

Scheme Initiator, Key Confirmation Provider: U to V
NonceV is
F8C1FC06 6B3EABFE 0048466C A80DFDFB A3B9F7C3 73173309

Z is
28D8AB53 9969B2C3 5979A92F D6462417 7A7191FF E70DE82D

OtherInfo is
12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

B291

C22589BF 6962261E CD0A37E0 AA82BABD 90BC9EBD FEB2479A
685959EB 317FFCB7 42438F0F E879844C AD2594C3 15CAF548

MacData is

4B435F31 5F55414C 49434542 4F424259
CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612
68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A
F8C1FC06 6B3EABFE 0048466C A80DFDFB A3B9F7C3 73173309

MacKey is

B291 C22589BF 6962261E

Mtag is

B77CCEB3 AB54B2EA CD2DC61C 06A31CC1 6392D3CB

KeyData is

CD0A37E0 AA82BABD 90BC9EBD FEB2479A
685959EB 317FFCB7 42438F0F E879844C AD2594C3 15CAF548

Scheme Responder, Key Confirmation Provider: V to U

NonceU is

F8C1FC06 6B3EABFE 0048466C A80DFDFB A3B9F7C3 73173309

Z is

28D8AB53 9969B2C3 5979A92F D6462417 7A7191FF E70DE82D

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

B291

C22589BF 6962261E CD0A37E0 AA82BABD 90BC9EBD FEB2479A

685959EB 317FFCB7 42438F0F E879844C AD2594C3 15CAF548

MacData is

4B435F31 5F56424F 42425941 4C494345
CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612
68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A

MacKey is

B291 C22589BF 6962261E

Mtag is

07EBCB09 B4850F10 E3ABCFE4 D9825913 DBC65BA5

KeyData is

CD0A37E0 AA82BABD 90BC9EBD FEB2479A
685959EB 317FFCB7 42438F0F E879844C AD2594C3 15CAF548

Scheme Initiator, Key Confirmation Bilateral

NonceV is

F8C1FC06 6B3EABFE 0048466C A80DFDFB A3B9F7C3 73173309

Z is

28D8AB53 9969B2C3 5979A92F D6462417 7A7191FF E70DE82D

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

B291
C22589BF 6962261E CD0A37E0 AA82BABD 90BC9EBD FEB2479A
685959EB 317FFCB7 42438F0F E879844C AD2594C3 15CAF548

U2V

MacData is

4B435F32 5F55414C 49434542 4F424259
CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612
68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A
F8C1FC06 6B3EABFE 0048466C A80DFDFB A3B9F7C3 73173309

MacKey is

B291 C22589BF 6962261E

Mtag is

CD5B865D 6B5C4ED0 6F50D438 SEDDA5EB 87BE7907

V2U

MacData is

4B435F32 5F56424F 42425941 4C494345
F8C1FC06 6B3EABFE 0048466C A80DFDFB A3B9F7C3 73173309
CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612
68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A

MacKey is

B291 C22589BF 6962261E

Mtag is

D5B5AA11 A2679DA4 6556463E 4F4B4390 D3EA7337

KeyData is

CD0A37E0 AA82BABD 90BC9EBD FEB2479A
685959EB 317FFCB7 42438F0F E879844C AD2594C3 15CAF548

OnePassDiffieHellmanCDH(P-192)

dsV is

0F9E539A E24C3A90 5B4ED7CE 4E2EBAD4 E4B77491 2623284B

QsV_x is

09F9D21C 7FD98D09 7B4C3AE7 64300040 3DB445B7 49C4B441

QsV_y is

43CB6933 62FD117C 79F255D9 DD6BBE75 F43BE57D 14E28685

deU is

323FA316 9D8E9C65 93F59476 BC142000 AB5BE0E2 49C43426

QeU_x is

CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612

QeU_y is

68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A

no Key Confirmation

Z is

78B3A426 67DFF154 E395367B 744CBB50 67C03D08 A96D9086

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

1811595A AE8280AE 98CAC5D7 D8ABCFB8
12EF12BA F7241C8C DAC23476 F82967A9 B0A87754 98F39B63

KeyData is

1811595A AE8280AE 98CAC5D7 D8ABCFB8
12EF12BA F7241C8C DAC23476 F82967A9 B0A87754 98F39B63

Scheme Responder, Key Confirmation Provider: V to U

Z is

78B3A426 67DFF154 E395367B 744CBB50 67C03D08 A96D9086

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

1811
595AAE82 80AE98CA C5D7D8AB CFB812EF 12BAF724 1C8CDAC2
3476F829 67A9B0A8 775498F3 9B633200 E1C0DF52 C65BC142

MacData is

4B435F31 5F56424F 42425941 4C494345
CD46489E CFD6C105 E7B3D325 66E2B122 E249ABAA DD870612
68887B48 77DF51DD 4DC3D6FD 11F0A26F 8FD38443 17916E9A

MacKey is

1811 595AAE82 80AE98CA

Mtag is

650B63C0 625A62AF FC741CAF 57F945EE F1F7B36C

KeyData is

C5D7D8AB CFB812EF 12BAF724 1C8CDAC2
3476F829 67A9B0A8 775498F3 9B633200 E1C0DF52 C65BC142

StaticUnifiedCDH(P-192)

dsU is

20F234D3 2CD7EDD8 BFC5BD96 DAE60859 3E38E894 2324FDE8

QsU_x is

896C0B5E E70F55B3 B463101C 1BFB86D3 A7C6C5DA 354F6214

QsU_y is

40B85F14 4536C6F5 4BC85BED 3820A74A BF58BC78 2D1DB241

dsV is

0F9E539A E24C3A90 5B4ED7CE 4E2EBAD4 E4B77491 2623284B

QsV_x is

09F9D21C 7FD98D09 7B4C3AE7 64300040 3DB445B7 49C4B441

QsV_y is

43CB6933 62FD117C 79F255D9 DD6BBE75 F43BE57D 14E28685

no Key Confirmation

NonceU is

F8C1FC06 6B3EABFE 0048466C A80DFDFB A3B9F7C3 73173309

Z is

0FB12A1B 3BEBF263 EE216413 ED06A84A 12EB5111 59F1337D

OtherInfo is

1234
56789ABC DEF0414C 49434531 3233C000 F8C1FC06 6B3EABFE
0048466C A80DFDFB A3B9F7C3 73173309 424F4242 59343536

DerivedKeyMaterial is

97D227DD 8E001BFC 58AC4933 1C2233D8
8128422F 35D247F1 68A2813B AAECB3AA E0F84155 7885E446

KeyData is

97D227DD 8E001BFC 58AC4933 1C2233D8
8128422F 35D247F1 68A2813B AAECB3AA E0F84155 7885E446

Scheme Initiator, Key Confirmation Provider: U to V

NonceU is
F8C1FC06 6B3EABFE 0048466C A80DFDFB A3B9F7C3 73173309

NonceV is
81DB7325 97393873 89E51893 EFAD98A0 F0442D34 A531DC53

Z is
0FB12A1B 3BEBF263 EE216413 ED06A84A 12EB5111 59F1337D

OtherInfo is
1234
56789ABC DEF0414C 49434531 3233C000 F8C1FC06 6B3EABFE
0048466C A80DFDFB A3B9F7C3 73173309 424F4242 59343536

DerivedKeyMaterial is
97D2
27DD8E00 1BFC58AC 49331C22 33D88128 422F35D2 47F168A2
813BAAEC B3AAE0F8 41557885 E446E549 0A21E789 7277A6D7

MacData is
4B435F31 5F55414C 49434542 4F424259
F8C1FC06 6B3EABFE 0048466C A80DFDFB A3B9F7C3 73173309
81DB7325 97393873 89E51893 EFAD98A0 F0442D34 A531DC53

MacKey is
97D2 27DD8E00 1BFC58AC

Mtag is
525878C5 3D2851E1 1355A221 DBA01855 99B13388

KeyData is
49331C22 33D88128 422F35D2 47F168A2
813BAAEC B3AAE0F8 41557885 E446E549 0A21E789 7277A6D7

Scheme Responder, Key Confirmation Provider: V to U

NonceV is

81DB7325 97393873 89E51893 EFAD98A0 F0442D34 A531DC53

NonceU is

F8C1FC06 6B3EABFE 0048466C A80DFDFB A3B9F7C3 73173309

Z is

0FB12A1B 3BEBF263 EE216413 ED06A84A 12EB5111 59F1337D

OtherInfo is

1234
56789ABC DEF0414C 49434531 3233C000 F8C1FC06 6B3EABFE
0048466C A80DFDFB A3B9F7C3 73173309 424F4242 59343536

DerivedKeyMaterial is

97D2
27DD8E00 1BFC58AC 49331C22 33D88128 422F35D2 47F168A2
813BAAEC B3AAE0F8 41557885 E446E549 0A21E789 7277A6D7

MacData is

4B435F31 5F56424F 42425941 4C494345
F8C1FC06 6B3EABFE 0048466C A80DFDFB A3B9F7C3 73173309

MacKey is

97D2 27DD8E00 1BFC58AC

Mtag is

9EBA877C 4B6D62AE 22A9ED34 5280F5B1 A28421FF

KeyData is

49331C22 33D88128 422F35D2 47F168A2
813BAAEC B3AAE0F8 41557885 E446E549 0A21E789 7277A6D7

Scheme Initiator, Key Confirmation Bilateral

NonceU is

F8C1FC06 6B3EABFE 0048466C A80DFDFB A3B9F7C3 73173309

NonceV is

81DB7325 97393873 89E51893 EFAD98A0 F0442D34 A531DC53

Z is

0FB12A1B 3BEBF263 EE216413 ED06A84A 12EB5111 59F1337D

OtherInfo is

1234
56789ABC DEF0414C 49434531 3233C000 F8C1FC06 6B3EABFE
0048466C A80DFDFB A3B9F7C3 73173309 424F4242 59343536

DerivedKeyMaterial is

97D2
27DD8E00 1BFC58AC 49331C22 33D88128 422F35D2 47F168A2
813BAAEC B3AAE0F8 41557885 E446E549 0A21E789 7277A6D7

U2V

MacData is

4B435F32 5F55414C 49434542 4F424259
F8C1FC06 6B3EABFE 0048466C A80DFDFB A3B9F7C3 73173309
81DB7325 97393873 89E51893 EFAD98A0 F0442D34 A531DC53

MacKey is

97D2 27DD8E00 1BFC58AC

Mtag is

F563A1FF F1D386F2 AD2A5FAE 42D60BE7 5858ABD0

V2U

MacData is

4B435F32 5F56424F 42425941 4C494345

81DB7325 97393873 89E51893 EFAD98A0 F0442D34 A531DC53
F8C1FC06 6B3EABFE 0048466C A80DFDFB A3B9F7C3 73173309

MacKey is

97D2 27DD8E00 1BFC58AC

Mtag is

C64C12EF 4D9FDB90 0B24EA6C 92E7E4B4 CB07E81E

KeyData is

49331C22 33D88128 422F35D2 47F168A2
813BAAEC B3AAE0F8 41557885 E446E549 0A21E789 7277A6D7

FullUnifiedCDH(P-224)

dsU is

A273DD64
3AB8A64B 4B6E1FF9 C7ECF18E BC1F62DE 33450A9E 32E8A504

QsU_x is

FAD43A96
46721C46 52F13752 345FC2D5 25515A55 A170E685 314810E1

QsU_y is

E05BE902
7238C138 7F7C5575 ED425324 32929EFB C2C37293 1253F3D2

dsV is

723A6551
09089ED0 EDB4E630 72A82640 9F9C6204 635169F0 681F7514

QsV_x is

0898B1C4
B9308496 45F2E605 00DA0492 0CB70272 3E4E13F6 64C99B0B

QsV_y is

0D91CF88
A13435E4 D126DA64 352C75F2 B80C65F9 43D6F65A 6AC20F0B

deU is

B558EB6C
288DA707 BBB4F8FB AE2AB9E9 CB62E3BC 5C7573E2 2E26D37F

QeU_x is

49DFEF30
9F81488C 304CFF5A B3EE5A21 54367DC7 833150E0 A51F3EEB

QeU_y is

4F2B5EE4

5762C4F6 54C1A0C6 7F54CF88 B016B51B CE3D7C22 8D57ADB4

deV is

AC3B1ADD
3D9770E6 F6A708EE 9F3B8E0A B3B480E9 F27F85C8 8B5E6D18

QeV_x is

6B3AC96A
8D0CDE6A 5599BE80 32EDF10C 162D0A8A D219506D CD42A207

QeV_y is

D491BE99
C213A7D1 CA3706DE BFE305F3 61AFCBB3 3E2609C8 B1618AD5

no Key Confirmation

Zs is

9F18FF54
F8872307 3F64A695 3D04914F 45A23EEE 7CFC4667 080AA0F9

Ze is

52272F50
F46F4EDC 91515690 92F46DF2 D96ECC3B 6DC1714A 4EA949FA

Z is

52272F50 F46F4EDC
91515690 92F46DF2 D96ECC3B 6DC1714A 4EA949FA 9F18FF54
F8872307 3F64A695 3D04914F 45A23EEE 7CFC4667 080AA0F9

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

7756BCFD EF3EE69F
6AC23CD2 DC607D01 FA8CE1B2 4F5CAAAA 48E04B81 63E1733A
ED7A040E 73F2B542 368F0054 8B163C3D C96D7009 9916F16B

KeyData is

7756BCFD EF3EE69F
6AC23CD2 DC607D01 FA8CE1B2 4F5CAAAA 48E04B81 63E1733A
ED7A040E 73F2B542 368F0054 8B163C3D C96D7009 9916F16B

Scheme Initiator, Key Confirmation Provider: U to V

Zs is

9F18FF54
F8872307 3F64A695 3D04914F 45A23EEE 7CFC4667 080AA0F9

Ze is

52272F50
F46F4EDC 91515690 92F46DF2 D96ECC3B 6DC1714A 4EA949FA

Z is

52272F50 F46F4EDC
91515690 92F46DF2 D96ECC3B 6DC1714A 4EA949FA 9F18FF54
F8872307 3F64A695 3D04914F 45A23EEE 7CFC4667 080AA0F9

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

7756 BCFDEF3E E69F6AC2 3CD2DC60 7D01FA8C E1B24F5C
AAAA48E0 4B8163E1 733AED7A 040E73F2 B542368F 00548B16
3C3DC96D 70099916 F16B96DE 6EF4948D 3C2EF037 E45DCD43

MacData is

4B435F31 5F55414C
49434542 4F424259 49DFEF30 9F81488C 304CFF5A B3EE5A21
54367DC7 833150E0 A51F3EEB 4F2B5EE4 5762C4F6 54C1A0C6
7F54CF88 B016B51B CE3D7C22 8D57ADB4 6B3AC96A 8D0CDE6A
5599BE80 32EDF10C 162D0A8A D219506D CD42A207 D491BE99
C213A7D1 CA3706DE BFE305F3 61AFCBB3 3E2609C8 B1618AD5

MacKey is

7756 BCFDEF3E E69F6AC2 3CD2DC60

Mtag is

119F3782 BF892E92 9E04D14D D24BDD0F 28FB87FC BE37803E
9EE6013E

KeyData is

AAAA48E0 4B8163E1 733AED7A 040E73F2 B542368F 00548B16
3C3DC96D 70099916 F16B96DE 6EF4948D 3C2EF037 E45DCD43
7D01FA8C E1B24F5C

Scheme Responder, Key Confirmation Provider: V to U

Zs is

F8872307 3F64A695 3D04914F 45A23EEE 7CFC4667 080AA0F9
9F18FF54

Ze is

F46F4EDC 91515690 92F46DF2 D96ECC3B 6DC1714A 4EA949FA
52272F50

Z is

91515690 92F46DF2 D96ECC3B 6DC1714A 4EA949FA 9F18FF54
F8872307 3F64A695 3D04914F 45A23EEE 7CFC4667 080AA0F9
52272F50 F46F4EDC

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

7756 BCFDEF3E E69F6AC2 3CD2DC60 7D01FA8C E1B24F5C
AAAA48E0 4B8163E1 733AED7A 040E73F2 B542368F 00548B16
3C3DC96D 70099916 F16B96DE 6EF4948D 3C2EF037 E45DCD43

MacData is

4B435F31 5F56424F
42425941 4C494345 6B3AC96A 8D0CDE6A 5599BE80 32EDF10C
162D0A8A D219506D CD42A207 D491BE99 C213A7D1 CA3706DE
BFE305F3 61AFCBB3 3E2609C8 B1618AD5 49DFEF30 9F81488C
304CFF5A B3EE5A21 54367DC7 833150E0 A51F3EEB 4F2B5EE4
5762C4F6 54C1A0C6 7F54CF88 B016B51B CE3D7C22 8D57ADB4

MacKey is

7756 BCFDEF3E E69F6AC2 3CD2DC60

Mtag is

32FB2425
20A67C16 52658556 16754B36 488841C8 B141EDB9 2F2B8400

KeyData is

7D01FA8C E1B24F5C
AAAA48E0 4B8163E1 733AED7A 040E73F2 B542368F 00548B16
3C3DC96D 70099916 F16B96DE 6EF4948D 3C2EF037 E45DCD43

Scheme Initiator, Key Confirmation Bilateral

Zs is

9F18FF54
F8872307 3F64A695 3D04914F 45A23EEE 7CFC4667 080AA0F9

Ze is

52272F50
F46F4EDC 91515690 92F46DF2 D96ECC3B 6DC1714A 4EA949FA

Z is

52272F50 F46F4EDC
91515690 92F46DF2 D96ECC3B 6DC1714A 4EA949FA 9F18FF54
F8872307 3F64A695 3D04914F 45A23EEE 7CFC4667 080AA0F9

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

7756 BCFDEF3E E69F6AC2 3CD2DC60 7D01FA8C E1B24F5C
AAAA48E0 4B8163E1 733AED7A 040E73F2 B542368F 00548B16
3C3DC96D 70099916 F16B96DE 6EF4948D 3C2EF037 E45DCD43

U2V

MacData is

4B435F32 5F55414C
49434542 4F424259 49DFEF30 9F81488C 304CFF5A B3EE5A21
54367DC7 833150E0 A51F3EEB 4F2B5EE4 5762C4F6 54C1A0C6
7F54CF88 B016B51B CE3D7C22 8D57ADB4 6B3AC96A 8D0CDE6A
5599BE80 32EDF10C 162D0A8A D219506D CD42A207 D491BE99
C213A7D1 CA3706DE BFE305F3 61AFCBB3 3E2609C8 B1618AD5

MacKey is

7756 BCFDEF3E E69F6AC2 3CD2DC60

Mtag is

3C1B7182
FF32DC91 BCD26B90 223CDC27 34EBF8CC 236EB944 857153B2

V2U

MacData is

4B435F32 5F56424F
42425941 4C494345 6B3AC96A 8D0CDE6A 5599BE80 32EDF10C
162D0A8A D219506D CD42A207 D491BE99 C213A7D1 CA3706DE
BFE305F3 61AFCBB3 3E2609C8 B1618AD5 49DFEF30 9F81488C
304CFF5A B3EE5A21 54367DC7 833150E0 A51F3EEB 4F2B5EE4
5762C4F6 54C1A0C6 7F54CF88 B016B51B CE3D7C22 8D57ADB4

MacKey is

7756 BCFDEF3E E69F6AC2 3CD2DC60

Mtag is

7DFA15A7
5550A8FD F01AF1EF 77FB9547 7E49D672 6CFD3BD1 079428CA

KeyData is

7D01FA8C E1B24F5C
AAAA48E0 4B8163E1 733AED7A 040E73F2 B542368F 00548B16
3C3DC96D 70099916 F16B96DE 6EF4948D 3C2EF037 E45DCD43

FullMQV(P-224)

dsU is

A273DD64
3AB8A64B 4B6E1FF9 C7ECF18E BC1F62DE 33450A9E 32E8A504

QsU_x is

FAD43A96
46721C46 52F13752 345FC2D5 25515A55 A170E685 314810E1

QsU_y is

E05BE902
7238C138 7F7C5575 ED425324 32929EFB C2C37293 1253F3D2

dsV is

723A6551
09089ED0 EDB4E630 72A82640 9F9C6204 635169F0 681F7514

QsV_x is

0898B1C4
B9308496 45F2E605 00DA0492 0CB70272 3E4E13F6 64C99B0B

QsV_y is

0D91CF88
A13435E4 D126DA64 352C75F2 B80C65F9 43D6F65A 6AC20F0B

deU is

B558EB6C
288DA707 BBB4F8FB AE2AB9E9 CB62E3BC 5C7573E2 2E26D37F

QeU_x is
49DFEF30
9F81488C 304CFF5A B3EE5A21 54367DC7 833150E0 A51F3EEB

QeU_y is
4F2B5EE4
5762C4F6 54C1A0C6 7F54CF88 B016B51B CE3D7C22 8D57ADB4

deV is
AC3B1ADD
3D9770E6 F6A708EE 9F3B8E0A B3B480E9 F27F85C8 8B5E6D18

QeV_x is
6B3AC96A
8D0CDE6A 5599BE80 32EDF10C 162D0A8A D219506D CD42A207

QeV_y is
D491BE99
C213A7D1 CA3706DE BFE305F3 61AFCBB3 3E2609C8 B1618AD5

no Key Confirmation
Z is
DEF3B660
18D14DCD FFF1C251 174C6825 82709092 5AA823EF A0F99812

OtherInfo is
12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is
5924621F C51249E4
48BBF95B B47E6B6B 6406F8E1 A1E1C046 C6B4F49C 4DD866F3
F76A47C4 C996BCA3 0B02789A 023DFCB4 1270EAB2 A1F10B00

KeyData is

5924621F C51249E4
48BBF95B B47E6B6B 6406F8E1 A1E1C046 C6B4F49C 4DD866F3
F76A47C4 C996BCA3 0B02789A 023DFCB4 1270EAB2 A1F10B00

Scheme Initiator, Key Confirmation Provider: U to V
Z is

DEF3B660
18D14DCD FFF1C251 174C6825 82709092 5AA823EF A0F99812

OtherInfo is

12345678 9ABCDEFO 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

5924 621FC512 49E448BB F95BB47E 6B6B6406 F8E1A1E1
C046C6B4 F49C4DD8 66F3F76A 47C4C996 BCA30B02 789A023D
FCB41270 EAB2A1F1 0B00A4E0 3C6F0379 624382F0 3C4F340A

MacData is

4B435F31 5F55414C
49434542 4F424259 49DFEF30 9F81488C 304CFF5A B3EE5A21
54367DC7 833150E0 A51F3EEB 4F2B5EE4 5762C4F6 54C1A0C6
7F54CF88 B016B51B CE3D7C22 8D57ADB4 6B3AC96A 8D0CDE6A
5599BE80 32EDF10C 162D0A8A D219506D CD42A207 D491BE99
C213A7D1 CA3706DE BFE305F3 61AFCBB3 3E2609C8 B1618AD5

MacKey is

5924 621FC512 49E448BB F95BB47E

Mtag is

6FA28E3D
AB50C637 65039C64 ED28C014 AF9AE6FB FC0E633A 4748CAE4

KeyData is

6B6B6406 F8E1A1E1
C046C6B4 F49C4DD8 66F3F76A 47C4C996 BCA30B02 789A023D
FCB41270 EAB2A1F1 0B00A4E0 3C6F0379 624382F0 3C4F340A

Scheme Responder, Key Confirmation Provider: V to U
Z is

DEF3B660
18D14DCD FFF1C251 174C6825 82709092 5AA823EF A0F99812

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

5924 621FC512 49E448BB F95BB47E 6B6B6406 F8E1A1E1
C046C6B4 F49C4DD8 66F3F76A 47C4C996 BCA30B02 789A023D
FCB41270 EAB2A1F1 0B00A4E0 3C6F0379 624382F0 3C4F340A

MacData is

4B435F31 5F56424F
42425941 4C494345 6B3AC96A 8D0CDE6A 5599BE80 32EDF10C
162D0A8A D219506D CD42A207 D491BE99 C213A7D1 CA3706DE
BFE305F3 61AFCBB3 3E2609C8 B1618AD5 49DFEF30 9F81488C
304CFF5A B3EE5A21 54367DC7 833150E0 A51F3EEB 4F2B5EE4
5762C4F6 54C1A0C6 7F54CF88 B016B51B CE3D7C22 8D57ADB4

MacKey is

5924 621FC512 49E448BB F95BB47E

Mtag is

A22C1AC7
613C91C9 E3F85F55 7DA051FC 59C42F35 53132A10 DB641373

KeyData is

6B6B6406 F8E1A1E1
C046C6B4 F49C4DD8 66F3F76A 47C4C996 BCA30B02 789A023D
FCB41270 EAB2A1F1 0B00A4E0 3C6F0379 624382F0 3C4F340A

Scheme Initiator, Key Confirmation Bilateral
Z is

DEF3B660
18D14DCD FFF1C251 174C6825 82709092 5AA823EF A0F99812

OtherInfo is

12345678 9ABCDEFO 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

5924 621FC512 49E448BB F95BB47E 6B6B6406 F8E1A1E1
C046C6B4 F49C4DD8 66F3F76A 47C4C996 BCA30B02 789A023D
FCB41270 EAB2A1F1 0B00A4E0 3C6F0379 624382F0 3C4F340A

U2V

MacData is

4B435F32 5F55414C
49434542 4F424259 49DFEF30 9F81488C 304CFF5A B3EE5A21
54367DC7 833150E0 A51F3EEB 4F2B5EE4 5762C4F6 54C1A0C6
7F54CF88 B016B51B CE3D7C22 8D57ADB4 6B3AC96A 8D0CDE6A
5599BE80 32EDF10C 162D0A8A D219506D CD42A207 D491BE99
C213A7D1 CA3706DE BFE305F3 61AFCBB3 3E2609C8 B1618AD5

MacKey is

5924 621FC512 49E448BB F95BB47E

Mtag is

A18A79FC
B60D7368 ABA1D3FC 80D3D745 2678EA16 0734453A 208FAF61

V2U

MacData is

4B435F32 5F56424F
42425941 4C494345 6B3AC96A 8D0CDE6A 5599BE80 32EDF10C
162D0A8A D219506D CD42A207 D491BE99 C213A7D1 CA3706DE
BFE305F3 61AFCBB3 3E2609C8 B1618AD5 49DFEF30 9F81488C

304CFF5A B3EE5A21 54367DC7 833150E0 A51F3EEB 4F2B5EE4
5762C4F6 54C1A0C6 7F54CF88 B016B51B CE3D7C22 8D57ADB4

MacKey is

5924 621FC512 49E448BB F95BB47E

Mtag is

DB375DC5
2BA00B86 1B5F365D 41CDED7D 3AAFCE42 576F1301 1183AC41

KeyData is

6B6B6406 F8E1A1E1
C046C6B4 F49C4DD8 66F3F76A 47C4C996 BCA30B02 789A023D
FCB41270 EAB2A1F1 0B00A4E0 3C6F0379 624382F0 3C4F340A

EphemeralUnifiedCDH(P-224)

deU is

B558EB6C
288DA707 BBB4F8FB AE2AB9E9 CB62E3BC 5C7573E2 2E26D37F

QeU_x is

49DFEF30
9F81488C 304CFF5A B3EE5A21 54367DC7 833150E0 A51F3EEB

QeU_y is

4F2B5EE4
5762C4F6 54C1A0C6 7F54CF88 B016B51B CE3D7C22 8D57ADB4

deV is

AC3B1ADD
3D9770E6 F6A708EE 9F3B8E0A B3B480E9 F27F85C8 8B5E6D18

QeV_x is

6B3AC96A
8D0CDE6A 5599BE80 32EDF10C 162D0A8A D219506D CD42A207

QeV_y is

D491BE99
C213A7D1 CA3706DE BFE305F3 61AFCBB3 3E2609C8 B1618AD5

no Key Confirmation

Z is

52272F50
F46F4EDC 91515690 92F46DF2 D96ECC3B 6DC1714A 4EA949FA

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

8F61E07C 6B90ECD0
15E5DED9 ED3B82B8 229786BD FB039289 CC666FAD 99E0D042
A3F19045 8335A703 26486A23 43DBB074 0984604F 1E715BEE

KeyData is

8F61E07C 6B90ECD0
15E5DED9 ED3B82B8 229786BD FB039289 CC666FAD 99E0D042
A3F19045 8335A703 26486A23 43DBB074 0984604F 1E715BEE

OnePassUnifiedCDH(P-224)

dsU is

A273DD64
3AB8A64B 4B6E1FF9 C7ECF18E BC1F62DE 33450A9E 32E8A504

QsU_x is

FAD43A96
46721C46 52F13752 345FC2D5 25515A55 A170E685 314810E1

QsU_y is

E05BE902
7238C138 7F7C5575 ED425324 32929EFB C2C37293 1253F3D2

dsV is

723A6551
09089ED0 EDB4E630 72A82640 9F9C6204 635169F0 681F7514

QsV_x is

0898B1C4
B9308496 45F2E605 00DA0492 0CB70272 3E4E13F6 64C99B0B

QsV_y is

0D91CF88
A13435E4 D126DA64 352C75F2 B80C65F9 43D6F65A 6AC20F0B

deU is

B558EB6C
288DA707 BBB4F8FB AE2AB9E9 CB62E3BC 5C7573E2 2E26D37F

QeU_x is

49DFEF30
9F81488C 304CFF5A B3EE5A21 54367DC7 833150E0 A51F3EEB

QeU_y is

4F2B5EE4
5762C4F6 54C1A0C6 7F54CF88 B016B51B CE3D7C22 8D57ADB4

no Key Confirmation

Zs is

9F18FF54
F8872307 3F64A695 3D04914F 45A23EEE 7CFC4667 080AA0F9

Ze is

59141E22

76D41EDA D4E6D088 5C363DCF E91FCC0C 1726D11C FB3AA35B

Z is

59141E22 76D41EDA
D4E6D088 5C363DCF E91FCC0C 1726D11C FB3AA35B 9F18FF54
F8872307 3F64A695 3D04914F 45A23EEE 7CFC4667 080AA0F9

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

92EA706A 6FCE4DD2
0D0B918B C1076EEE 1FBCD591 37429C8B 56B201D3 D7255180
E8F11FF1 DBB34C10 310028E0 29708B05 0A834422 934109BD

KeyData is

92EA706A 6FCE4DD2
0D0B918B C1076EEE 1FBCD591 37429C8B 56B201D3 D7255180
E8F11FF1 DBB34C10 310028E0 29708B05 0A834422 934109BD

Scheme Initiator, Key Confirmation Provider: U to V

NonceV is

4327ABCA
DC176812 553A2E13 F68080BE D1BC6A1A 4F6FBB12 345EC9F9

Zs is

9F18FF54
F8872307 3F64A695 3D04914F 45A23EEE 7CFC4667 080AA0F9

Ze is

59141E22
76D41EDA D4E6D088 5C363DCF E91FCC0C 1726D11C FB3AA35B

Z is

59141E22 76D41EDA

D4E6D088 5C363DCF E91FCC0C 1726D11C FB3AA35B 9F18FF54
F8872307 3F64A695 3D04914F 45A23EEE 7CFC4667 080AA0F9

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

92EA 706A6FCE 4DD20D0B 918BC107 6EEE1FBC D5913742
9C8B56B2 01D3D725 5180E8F1 1FF1DBB3 4C103100 28E02970
8B050A83 44229341 09BD0362 8FC0BA70 8AA035DB B2D8C4F0

MacData is

4B435F31
5F55414C 49434542 4F424259 49DFEF30 9F81488C 304CFF5A
B3EE5A21 54367DC7 833150E0 A51F3EEB 4F2B5EE4 5762C4F6
54C1A0C6 7F54CF88 B016B51B CE3D7C22 8D57ADB4 4327ABCA
DC176812 553A2E13 F68080BE D1BC6A1A 4F6FBB12 345EC9F9

MacKey is

92EA 706A6FCE 4DD20D0B 918BC107

Mtag is

083B64E0
F6BAAA1D D69B4545 E42CEF3F 9C292D80 0DCA76D1 7E71E687

KeyData is

6EEE1FBC D5913742
9C8B56B2 01D3D725 5180E8F1 1FF1DBB3 4C103100 28E02970
8B050A83 44229341 09BD0362 8FC0BA70 8AA035DB B2D8C4F0

Scheme Responder, Key Confirmation Provider: V to U

NonceU is

4327ABCA
DC176812 553A2E13 F68080BE D1BC6A1A 4F6FBB12 345EC9F9

Zs is

F8872307 3F64A695 3D04914F 45A23EEE 7CFC4667 080AA0F9 9F18FF54

Ze is

76D41EDA D4E6D088 5C363DCF E91FCC0C 1726D11C FB3AA35B 59141E22

Z is

D4E6D088 5C363DCF E91FCC0C 1726D11C FB3AA35B 9F18FF54 59141E22 76D41EDA
F8872307 3F64A695 3D04914F 45A23EEE 7CFC4667 080AA0F9

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

92EA 706A6FCE 4DD20D0B 918BC107 6EEE1FBC D5913742
9C8B56B2 01D3D725 5180E8F1 1FF1DBB3 4C103100 28E02970
8B050A83 44229341 09BD0362 8FC0BA70 8AA035DB B2D8C4F0

MacData is

4B435F31 5F56424F 42425941 4C494345 49DFEF30 9F81488C
304CFF5A B3EE5A21 54367DC7 833150E0 A51F3EEB 4F2B5EE4
5762C4F6 54C1A0C6 7F54CF88 B016B51B CE3D7C22 8D57ADB4

MacKey is

92EA 706A6FCE 4DD20D0B 918BC107

Mtag is

EE45EB61 B2DEA75E C0F9A1A2 B93B1859 E74AEAD8 6CBBC6B2 2762D05E

KeyData is

9C8B56B2 01D3D725 5180E8F1 1FF1DBB3 4C103100 28E02970 6EEE1FBC D5913742
8B050A83 44229341 09BD0362 8FC0BA70 8AA035DB B2D8C4F0

Scheme Initiator, Key Confirmation Bilateral
NonceV is

4327ABCA
DC176812 553A2E13 F68080BE D1BC6A1A 4F6FBB12 345EC9F9

Zs is

9F18FF54
F8872307 3F64A695 3D04914F 45A23EEE 7CFC4667 080AA0F9

Ze is

59141E22
76D41EDA D4E6D088 5C363DCF E91FCC0C 1726D11C FB3AA35B

Z is

59141E22 76D41EDA
D4E6D088 5C363DCF E91FCC0C 1726D11C FB3AA35B 9F18FF54
F8872307 3F64A695 3D04914F 45A23EEE 7CFC4667 080AA0F9

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

92EA 706A6FCE 4DD20D0B 918BC107 6EEE1FBC D5913742
9C8B56B2 01D3D725 5180E8F1 1FF1DBB3 4C103100 28E02970
8B050A83 44229341 09BD0362 8FC0BA70 8AA035DB B2D8C4F0

U2V

MacData is

4B435F32
5F55414C 49434542 4F424259 49DFEF30 9F81488C 304CFF5A
B3EE5A21 54367DC7 833150E0 A51F3EEB 4F2B5EE4 5762C4F6
54C1A0C6 7F54CF88 B016B51B CE3D7C22 8D57ADB4 4327ABCA
DC176812 553A2E13 F68080BE D1BC6A1A 4F6FBB12 345EC9F9

MacKey is

92EA 706A6FCE 4DD20D0B 918BC107

Mtag is

0954AFC0
2B5F3F3E 06FE2FF2 120D8695 C7D4BF77 7285B7CC F5691371

V2U

MacData is

4B435F32
5F56424F 42425941 4C494345 4327ABCA DC176812 553A2E13
F68080BE D1BC6A1A 4F6FBB12 345EC9F9 49DFEF30 9F81488C
304CFF5A B3EE5A21 54367DC7 833150E0 A51F3EEB 4F2B5EE4
5762C4F6 54C1A0C6 7F54CF88 B016B51B CE3D7C22 8D57ADB4

MacKey is

92EA 706A6FCE 4DD20D0B 918BC107

Mtag is

CEFD1BF6
C74C966F 97B632FB 26E2129B 2AED8022 2CCE396E B95091C1

KeyData is

6EEE1FBC D5913742
9C8B56B2 01D3D725 5180E8F1 1FF1DBB3 4C103100 28E02970
8B050A83 44229341 09BD0362 8FC0BA70 8AA035DB B2D8C4F0

OnePassMQV(P-224)

dsU is

A273DD64
3AB8A64B 4B6E1FF9 C7ECF18E BC1F62DE 33450A9E 32E8A504

QsU_x is

FAD43A96
46721C46 52F13752 345FC2D5 25515A55 A170E685 314810E1

QsU_y is

E05BE902
7238C138 7F7C5575 ED425324 32929EFB C2C37293 1253F3D2

dsV is

723A6551
09089ED0 EDB4E630 72A82640 9F9C6204 635169F0 681F7514

QsV_x is

0898B1C4
B9308496 45F2E605 00DA0492 0CB70272 3E4E13F6 64C99B0B

QsV_y is

0D91CF88
A13435E4 D126DA64 352C75F2 B80C65F9 43D6F65A 6AC20F0B

deU is

B558EB6C
288DA707 BBB4F8FB AE2AB9E9 CB62E3BC 5C7573E2 2E26D37F

QeU_x is

49DFEF30
9F81488C 304CFF5A B3EE5A21 54367DC7 833150E0 A51F3EEB

QeU_y is

4F2B5EE4
5762C4F6 54C1A0C6 7F54CF88 B016B51B CE3D7C22 8D57ADB4

no Key Confirmation

Z is

C94E2263
B99BEB56 46CA803A B625A9F8 734BD00E C9533680 8DCC8732

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

62C37171 C44BE767
4004DF4E B111664A 39C2E7AB 31C36CA0 0AA6996B CA481767
09F68F9A B0C361C4 A34AACC4 ABE7A89B E78C547D 6829D25E

KeyData is

62C37171 C44BE767
4004DF4E B111664A 39C2E7AB 31C36CA0 0AA6996B CA481767
09F68F9A B0C361C4 A34AACC4 ABE7A89B E78C547D 6829D25E

Scheme Initiator, Key Confirmation Provider: U to V

NonceV is

4327ABCA
DC176812 553A2E13 F68080BE D1BC6A1A 4F6FBB12 345EC9F9

Z is

C94E2263
B99BEB56 46CA803A B625A9F8 734BD00E C9533680 8DCC8732

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

62C3 7171C44B E7674004 DF4EB111 664A39C2 E7AB31C3
6CA00AA6 996BCA48 176709F6 8F9AB0C3 61C4A34A ACC4ABE7
A89BE78C 547D6829 D25EAFD6 1602000B A871D962 B4BC59C5

MacData is

4B435F31
5F55414C 49434542 4F424259 49DFEF30 9F81488C 304CFF5A
B3EE5A21 54367DC7 833150E0 A51F3EEB 4F2B5EE4 5762C4F6
54C1A0C6 7F54CF88 B016B51B CE3D7C22 8D57ADB4 4327ABCA
DC176812 553A2E13 F68080BE D1BC6A1A 4F6FBB12 345EC9F9

MacKey is

62C3 7171C44B E7674004 DF4EB111

Mtag is

EBED799A
91765BD7 A2D0CAE9 E7006E21 66058613 ED56873D 00EA3AF7

KeyData is

664A39C2 E7AB31C3
6CA00AA6 996BCA48 176709F6 8F9AB0C3 61C4A34A ACC4ABE7
A89BE78C 547D6829 D25EAFD6 1602000B A871D962 B4BC59C5

Scheme Responder, Key Confirmation Provider: V to U

NonceU is

4327ABCA
DC176812 553A2E13 F68080BE D1BC6A1A 4F6FBB12 345EC9F9

Z is

C94E2263
B99BEB56 46CA803A B625A9F8 734BD00E C9533680 8DCC8732

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

62C3 7171C44B E7674004 DF4EB111 664A39C2 E7AB31C3
6CA00AA6 996BCA48 176709F6 8F9AB0C3 61C4A34A ACC4ABE7
A89BE78C 547D6829 D25EAFD6 1602000B A871D962 B4BC59C5

MacData is

4B435F31 5F56424F 42425941 4C494345 49DFEF30 9F81488C
304CFF5A B3EE5A21 54367DC7 833150E0 A51F3EEB 4F2B5EE4
5762C4F6 54C1A0C6 7F54CF88 B016B51B CE3D7C22 8D57ADB4

MacKey is

62C3 7171C44B E7674004 DF4EB111

Mtag is

0D63208B
C4ED7839 4C5FC832 DC7B51E2 F702CB05 FB297813 688336C0

KeyData is

664A39C2 E7AB31C3
6CA00AA6 996BCA48 176709F6 8F9AB0C3 61C4A34A ACC4ABE7
A89BE78C 547D6829 D25EAFD6 1602000B A871D962 B4BC59C5

Scheme Initiator, Key Confirmation Bilateral

NonceV is

4327ABCA
DC176812 553A2E13 F68080BE D1BC6A1A 4F6FBB12 345EC9F9

Z is

C94E2263
B99BEB56 46CA803A B625A9F8 734BD00E C9533680 8DCC8732

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

62C3 7171C44B E7674004 DF4EB111 664A39C2 E7AB31C3
6CA00AA6 996BCA48 176709F6 8F9AB0C3 61C4A34A ACC4ABE7
A89BE78C 547D6829 D25EAFD6 1602000B A871D962 B4BC59C5

U2V

MacData is

4B435F32
5F55414C 49434542 4F424259 49DFEF30 9F81488C 304CFF5A
B3EE5A21 54367DC7 833150E0 A51F3EEB 4F2B5EE4 5762C4F6

54C1A0C6 7F54CF88 B016B51B CE3D7C22 8D57ADB4 4327ABCA
DC176812 553A2E13 F68080BE D1BC6A1A 4F6FBB12 345EC9F9

MacKey is

62C3 7171C44B E7674004 DF4EB111

Mtag is

1609EEFF B9DC6DDD 3A09FE05 F972F8E0 EEF1B4F8 9AF0834A
B2E7A535

V2U

MacData is

5F56424F 42425941 4C494345 4327ABCA DC176812 553A2E13
F68080BE D1BC6A1A 4F6FBB12 345EC9F9 49DFEF30 9F81488C
304CFF5A B3EE5A21 54367DC7 833150E0 A51F3EEB 4F2B5EE4
5762C4F6 54C1A0C6 7F54CF88 B016B51B CE3D7C22 8D57ADB4
4B435F32

MacKey is

62C3 7171C44B E7674004 DF4EB111

Mtag is

51BA83C3 CB5F94BD D07742D1 38B37764 437F8923 874FCC9F
47F5EE5E

KeyData is

6CA00AA6 996BCA48 176709F6 8F9AB0C3 61C4A34A ACC4ABE7
A89BE78C 547D6829 D25EAFD6 1602000B A871D962 B4BC59C5
664A39C2 E7AB31C3

OnePassDiffieHellmanCDH(P-224)

dsV is

09089ED0 EDB4E630 72A82640 9F9C6204 635169F0 681F7514
723A6551

QsV_x is

0898B1C4
B9308496 45F2E605 00DA0492 0CB70272 3E4E13F6 64C99B0B

QsV_y is

0D91CF88
A13435E4 D126DA64 352C75F2 B80C65F9 43D6F65A 6AC20F0B

deU is

B558EB6C
288DA707 BBB4F8FB AE2AB9E9 CB62E3BC 5C7573E2 2E26D37F

QeU_x is

49DFEF30
9F81488C 304CFF5A B3EE5A21 54367DC7 833150E0 A51F3EEB

QeU_y is

4F2B5EE4
5762C4F6 54C1A0C6 7F54CF88 B016B51B CE3D7C22 8D57ADB4

no Key Confirmation
Z is

59141E22
76D41EDA D4E6D088 5C363DCF E91FCC0C 1726D11C FB3AA35B

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

D9DAD952 FDA8BE9B
1C3F0962 D5B21DC8 F87E85B1 D3521242 2E4458FC 1600B2D4
5528EC66 ED6BB75E 8714B4EF BA31CD10 B0CEB5CF 74C480FA

KeyData is

D9DAD952 FDA8BE9B
1C3F0962 D5B21DC8 F87E85B1 D3521242 2E4458FC 1600B2D4
5528EC66 ED6BB75E 8714B4EF BA31CD10 B0CEB5CF 74C480FA

Scheme Responder, Key Confirmation Provider: V to U
Z is

59141E22
76D41EDA D4E6D088 5C363DCF E91FCC0C 1726D11C FB3AA35B

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

D9DA D952FDA8 BE9B1C3F 0962D5B2 1DC8F87E 85B1D352
12422E44 58FC1600 B2D45528 EC66ED6B B75E8714 B4EFBA31
CD10B0CE B5CF74C4 80FAA515 716881E3 658C6202 B97D4E01

MacData is

4B435F31 5F56424F 42425941 4C494345 49DFEF30 9F81488C
304CFF5A B3EE5A21 54367DC7 833150E0 A51F3EEB 4F2B5EE4
5762C4F6 54C1A0C6 7F54CF88 B016B51B CE3D7C22 8D57ADB4

MacKey is

D9DA D952FDA8 BE9B1C3F 0962D5B2

Mtag is

AB02D5F4
32638AA2 339EE0B5 07A31345 24EC7A1C 67A398A6 9D3BF981

KeyData is

1DC8F87E 85B1D352
12422E44 58FC1600 B2D45528 EC66ED6B B75E8714 B4EFBA31
CD10B0CE B5CF74C4 80FAA515 716881E3 658C6202 B97D4E01

StaticUnifiedCDH(P-224)

dsU is

A273DD64
3AB8A64B 4B6E1FF9 C7ECF18E BC1F62DE 33450A9E 32E8A504

QsU_x is

FAD43A96
46721C46 52F13752 345FC2D5 25515A55 A170E685 314810E1

QsU_y is

E05BE902
7238C138 7F7C5575 ED425324 32929EFB C2C37293 1253F3D2

dsV is

723A6551
09089ED0 EDB4E630 72A82640 9F9C6204 635169F0 681F7514

QsV_x is

0898B1C4
B9308496 45F2E605 00DA0492 0CB70272 3E4E13F6 64C99B0B

QsV_y is

0D91CF88
A13435E4 D126DA64 352C75F2 B80C65F9 43D6F65A 6AC20F0B

no Key Confirmation

NonceU is

4327ABCA
DC176812 553A2E13 F68080BE D1BC6A1A 4F6FBB12 345EC9F9

Z is

9F18FF54
F8872307 3F64A695 3D04914F 45A23EEE 7CFC4667 080AA0F9

OtherInfo is

1234 56789ABC
DEF0414C 49434531 3233E000 4327ABCA DC176812 553A2E13
F68080BE D1BC6A1A 4F6FBB12 345EC9F9 424F4242 59343536

DerivedKeyMaterial is

3A15B245 C1EA216C
5FEB3768 EABFB0F1 144477D4 AB41AC6C C6E73717 08B21A9B
FC99DEBB 82AD4852 68037AC2 1FEF9BA5 54283FE3 6114230C

KeyData is

3A15B245 C1EA216C
5FEB3768 EABFB0F1 144477D4 AB41AC6C C6E73717 08B21A9B
FC99DEBB 82AD4852 68037AC2 1FEF9BA5 54283FE3 6114230C

Scheme Initiator, Key Confirmation Provider: U to V
NonceU is

4327ABCA
DC176812 553A2E13 F68080BE D1BC6A1A 4F6FBB12 345EC9F9

NonceV is

A863E43A
B0C1163A 741A10AE F27BD6BE 6E8E3E45 0B8BCE01 DF0DA8B2

Z is

9F18FF54
F8872307 3F64A695 3D04914F 45A23EEE 7CFC4667 080AA0F9

OtherInfo is

1234 56789ABC
DEF0414C 49434531 3233E000 4327ABCA DC176812 553A2E13
F68080BE D1BC6A1A 4F6FBB12 345EC9F9 424F4242 59343536

DerivedKeyMaterial is

3A15 B245C1EA 216C5FEB 3768EABF B0F11444 77D4AB41

AC6CC6E7 371708B2 1A9BFC99 DEBB82AD 48526803 7AC21FEF
9BA55428 3FE36114 230C2C72 8DBDB69A 34153BF1 BAA71580

MacData is

4B435F31 5F55414C 49434542 4F424259 4327ABCA DC176812
553A2E13 F68080BE D1BC6A1A 4F6FBB12 345EC9F9 A863E43A
B0C1163A 741A10AE F27BD6BE 6E8E3E45 0B8BCE01 DF0DA8B2

MacKey is

3A15 B245C1EA 216C5FEB 3768EABF

Mtag is

78EA5BF9
DC24A78E A6D94FA1 46A8BC6F 5E29B63F 6B85695C 27425489

KeyData is

B0F11444 77D4AB41
AC6CC6E7 371708B2 1A9BFC99 DEBB82AD 48526803 7AC21FEF
9BA55428 3FE36114 230C2C72 8DBDB69A 34153BF1 BAA71580

Scheme Responder, Key Confirmation Provider: V to U

NonceV is

A863E43A
B0C1163A 741A10AE F27BD6BE 6E8E3E45 0B8BCE01 DF0DA8B2

NonceU is

4327ABCA
DC176812 553A2E13 F68080BE D1BC6A1A 4F6FBB12 345EC9F9

Z is

9F18FF54
F8872307 3F64A695 3D04914F 45A23EEE 7CFC4667 080AA0F9

OtherInfo is

1234 56789ABC

DEF0414C 49434531 3233E000 4327ABCA DC176812 553A2E13
F68080BE D1BC6A1A 4F6FBB12 345EC9F9 424F4242 59343536

DerivedKeyMaterial is

3A15 B245C1EA 216C5FEB 3768EABF B0F11444 77D4AB41
AC6CC6E7 371708B2 1A9BFC99 DEBB82AD 48526803 7AC21FEF
9BA55428 3FE36114 230C2C72 8DBDB69A 34153BF1 BAA71580

MacData is

4B435F31 5F56424F 42425941 4C494345 4327ABCA
DC176812 553A2E13 F68080BE D1BC6A1A 4F6FBB12 345EC9F9

MacKey is

3A15 B245C1EA 216C5FEB 3768EABF

Mtag is

8D3DCDAF
B2E7F89B 2ACFC757 828BC46C E708C8AC 0D59DE08 95779651

KeyData is

B0F11444 77D4AB41
AC6CC6E7 371708B2 1A9BFC99 DEBB82AD 48526803 7AC21FEF
9BA55428 3FE36114 230C2C72 8DBDB69A 34153BF1 BAA71580

Scheme Initiator, Key Confirmation Bilateral

NonceU is

4327ABCA
DC176812 553A2E13 F68080BE D1BC6A1A 4F6FBB12 345EC9F9

NonceV is

A863E43A
B0C1163A 741A10AE F27BD6BE 6E8E3E45 0B8BCE01 DF0DA8B2

Z is

F8872307 3F64A695 3D04914F 45A23EEE 7CFC4667 080AA0F9 9F18FF54

OtherInfo is

1234 56789ABC
DEF0414C 49434531 3233E000 4327ABCA DC176812 553A2E13
F68080BE D1BC6A1A 4F6FBB12 345EC9F9 424F4242 59343536

DerivedKeyMaterial is

3A15 B245C1EA 216C5FEB 3768EABF B0F11444 77D4AB41
AC6CC6E7 371708B2 1A9BFC99 DEBB82AD 48526803 7AC21FEF
9BA55428 3FE36114 230C2C72 8DBDB69A 34153BF1 BAA71580

U2V

MacData is

4B435F32 5F55414C 49434542 4F424259 4327ABCA DC176812
553A2E13 F68080BE D1BC6A1A 4F6FBB12 345EC9F9 A863E43A
B0C1163A 741A10AE F27BD6BE 6E8E3E45 0B8BCE01 DF0DA8B2

MacKey is

3A15 B245C1EA 216C5FEB 3768EABF

Mtag is

701F901A
59DB352A 63F83B7A 4AB75B70 E1676941 38F2A82E D877DA3E

V2U

MacData is

4B435F32 5F56424F 42425941 4C494345 A863E43A B0C1163A
741A10AE F27BD6BE 6E8E3E45 0B8BCE01 DF0DA8B2 4327ABCA
DC176812 553A2E13 F68080BE D1BC6A1A 4F6FBB12 345EC9F9

MacKey is

3A15 B245C1EA 216C5FEB 3768EABF

Mtag is

6125F911 209D68F0 F58F16F5 ACEED698 A21394AE 4DA3C33D CDF6A578

KeyData is

B0F11444 77D4AB41
AC6CC6E7 371708B2 1A9BFC99 DEBB82AD 48526803 7AC21FEF
9BA55428 3FE36114 230C2C72 8DBDB69A 34153BF1 BAA71580

FullUnifiedCDH(P-256)

dsU is

5DCDF2A3 3538D7CF
93A3680D 4CB4E86A 6814DA67 AC5D8323 EDBAAA59 FAAA2DE4

QsU_x is

E960C4EA 199B35D5
4CA122BB D85A61A3 0015FB9C 1FA43BE5 C04B4642 7D5206AB

QsU_y is

4EF04F38 77329ACF
60A13454 CC169266 6497DD57 B8705B0F C9459649 7E433532

dsV is

8FED7843 1D82558D
9006C3DE B06AB58D 9DCCC971 06875C67 25D5F166 255BA90A

QsV_x is

1B1631C5 DC76D378
A914C967 29D0A594 D54B4F58 845B1D4A 4B6BE739 CA4A18EA

QsV_y is

4F85E4C9 26EE5323
90AA7CD4 14943537 25E6E804 714AA69D 67072F65 DB625E07

deU is

81426414 5F2F56F2
E96A8E33 7A128499 3FAF432A 5ABCE59E 867B7291 D507A3AF

QeU_x is

2AF502F3 BE8952F2
C9B5A8D4 160D09E9 7165BE50 BC42AE4A 5E8D3B4B A83AEB15

QeU_y is

EB0FAF4C A986C4D3

8681A0F9 872D79D5 6795BD4B FF6E6DE3 C0F5015E CE5EFD85

deV is

2CE1788E C197E096
DB95A200 CC0AB26A 19CE6BCC AD562B8E EE1B5937 61CF7F41

QeV_x is

B120DE4A A3649279
5346E8DE 6C2C8646 AE06AAEA 279FA775 B3AB0715 F6CE51B0

QeV_y is

9F1B7EEC E20D7B5E
D8EC685F A3F071D8 37270270 92A84113 85C34DDE 5708B2B6

no Key Confirmation

Zs is

227684E7 1F5C313F
ADC91E52 9807E314 7D53145B 15ABD6ED 416AD35C D7E6838F

Ze is

DD0F5396 219D1EA3
93310412 D19A08F1 F5811E9D C8EC8EEA 7F80D21C 820C2788

Z is

DD0F5396 219D1EA3 93310412 D19A08F1
F5811E9D C8EC8EEA 7F80D21C 820C2788 227684E7 1F5C313F
ADC91E52 9807E314 7D53145B 15ABD6ED 416AD35C D7E6838F

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

C08B3DE2 4F1A381E 7A5675A2 A6523B08
F354605E EE46B9F3 9EADB1E9 7534416D 98B43CAE 8AB04AFD
53DEB37F 44022352 C3FBDE1E 2F2CEC53 1CFC324F DD0FCCA6

KeyData is

C08B3DE2 4F1A381E 7A5675A2 A6523B08
F354605E EE46B9F3 9EADB1E9 7534416D 98B43CAE 8AB04AFD
53DEB37F 44022352 C3FBDE1E 2F2CEC53 1CFC324F DD0FCCA6

Scheme Initiator, Key Confirmation Provider: U to V

Zs is

227684E7 1F5C313F
ADC91E52 9807E314 7D53145B 15ABD6ED 416AD35C D7E6838F

Ze is

DD0F5396 219D1EA3
93310412 D19A08F1 F5811E9D C8EC8EEA 7F80D21C 820C2788

Z is

DD0F5396 219D1EA3 93310412 D19A08F1
F5811E9D C8EC8EEA 7F80D21C 820C2788 227684E7 1F5C313F
ADC91E52 9807E314 7D53145B 15ABD6ED 416AD35C D7E6838F

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

C08B3DE2 4F1A381E
7A5675A2 A6523B08 F354605E EE46B9F3 9EADB1E9 7534416D
98B43CAE 8AB04AFD 53DEB37F 44022352 C3FBDE1E 2F2CEC53
1CFC324F DD0FCCA6 9B778342 70D4ED54 6720F5EF 269C95C2

MacData is

4B435F31 5F55414C 49434542 4F424259 2AF502F3 BE8952F2
C9B5A8D4 160D09E9 7165BE50 BC42AE4A 5E8D3B4B A83AEB15
EB0FAF4C A986C4D3 8681A0F9 872D79D5 6795BD4B FF6E6DE3
C0F5015E CE5EFD85 B120DE4A A3649279 5346E8DE 6C2C8646
AE06AAEA 279FA775 B3AB0715 F6CE51B0 9F1B7EEC E20D7B5E
D8EC685F A3F071D8 37270270 92A84113 85C34DDE 5708B2B6

MacKey is

C08B3DE2 4F1A381E 7A5675A2 A6523B08

Mtag is

5CFD5CC4 D489476E
65EE2E20 DF948DF9 A6B311B7 270CBEA1 9E309760 ECF2F4E4

KeyData is

F354605E EE46B9F3 9EADB1E9 7534416D
98B43CAE 8AB04AFD 53DEB37F 44022352 C3FBDE1E 2F2CEC53
1CFC324F DD0FCCA6 9B778342 70D4ED54 6720F5EF 269C95C2

Scheme Responder, Key Confirmation Provider: V to U

Zs is

227684E7 1F5C313F
ADC91E52 9807E314 7D53145B 15ABD6ED 416AD35C D7E6838F

Ze is

DD0F5396 219D1EA3
93310412 D19A08F1 F5811E9D C8EC8EEA 7F80D21C 820C2788

Z is

DD0F5396 219D1EA3 93310412 D19A08F1
F5811E9D C8EC8EEA 7F80D21C 820C2788 227684E7 1F5C313F
ADC91E52 9807E314 7D53145B 15ABD6ED 416AD35C D7E6838F

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

C08B3DE2 4F1A381E
7A5675A2 A6523B08 F354605E EE46B9F3 9EADB1E9 7534416D
98B43CAE 8AB04AFD 53DEB37F 44022352 C3FBDE1E 2F2CEC53
1CFC324F DD0FCCA6 9B778342 70D4ED54 6720F5EF 269C95C2

MacData is

4B435F31 5F56424F 42425941 4C494345 B120DE4A A3649279
5346E8DE 6C2C8646 AE06AAEA 279FA775 B3AB0715 F6CE51B0
9F1B7EEC E20D7B5E D8EC685F A3F071D8 37270270 92A84113
85C34DDE 5708B2B6 2AF502F3 BE8952F2 C9B5A8D4 160D09E9
7165BE50 BC42AE4A 5E8D3B4B A83AEB15 EB0FAF4C A986C4D3
8681A0F9 872D79D5 6795BD4B FF6E6DE3 C0F5015E CE5EFD85

MacKey is

C08B3DE2 4F1A381E 7A5675A2 A6523B08

Mtag is

206CBE5D 40AAAC1E
678ED3F7 C248F4BF D3B1AE0E 60B3089A C179AAB7 B1D4FF55

KeyData is

F354605E EE46B9F3 9EADB1E9 7534416D
98B43CAE 8AB04AFD 53DEB37F 44022352 C3FBDE1E 2F2CEC53
1CFC324F DD0FCCA6 9B778342 70D4ED54 6720F5EF 269C95C2

Scheme Initiator, Key Confirmation Bilateral

Zs is

227684E7 1F5C313F
ADC91E52 9807E314 7D53145B 15ABD6ED 416AD35C D7E6838F

Ze is

DD0F5396 219D1EA3
93310412 D19A08F1 F5811E9D C8EC8EEA 7F80D21C 820C2788

Z is

DD0F5396 219D1EA3 93310412 D19A08F1
F5811E9D C8EC8EEA 7F80D21C 820C2788 227684E7 1F5C313F
ADC91E52 9807E314 7D53145B 15ABD6ED 416AD35C D7E6838F

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

C08B3DE2 4F1A381E
7A5675A2 A6523B08 F354605E EE46B9F3 9EADB1E9 7534416D
98B43CAE 8AB04AFD 53DEB37F 44022352 C3FBDE1E 2F2CEC53
1CFC324F DD0FCCA6 9B778342 70D4ED54 6720F5EF 269C95C2

U2V

MacData is

4B435F32 5F55414C 49434542 4F424259 2AF502F3 BE8952F2
C9B5A8D4 160D09E9 7165BE50 BC42AE4A 5E8D3B4B A83AEB15
EB0FAF4C A986C4D3 8681A0F9 872D79D5 6795BD4B FF6E6DE3
C0F5015E CE5EFD85 B120DE4A A3649279 5346E8DE 6C2C8646
AE06AAEA 279FA775 B3AB0715 F6CE51B0 9F1B7EEC E20D7B5E
D8EC685F A3F071D8 37270270 92A84113 85C34DDE 5708B2B6

MacKey is

C08B3DE2 4F1A381E 7A5675A2 A6523B08

Mtag is

91C619A8 7851D80A
1142688B 0CDDC3A1 A2B20147 CA2C0ECF 04265EAF 8448DA3B

V2U

MacData is

4B435F32 5F56424F 42425941 4C494345 B120DE4A A3649279
5346E8DE 6C2C8646 AE06AAEA 279FA775 B3AB0715 F6CE51B0
9F1B7EEC E20D7B5E D8EC685F A3F071D8 37270270 92A84113
85C34DDE 5708B2B6 2AF502F3 BE8952F2 C9B5A8D4 160D09E9
7165BE50 BC42AE4A 5E8D3B4B A83AEB15 EB0FAF4C A986C4D3
8681A0F9 872D79D5 6795BD4B FF6E6DE3 C0F5015E CE5EFD85

MacKey is

C08B3DE2 4F1A381E 7A5675A2 A6523B08

Mtag is

F3267D2F E5CDBCEF
E763E96E C3974832 1B32B0EF 737D97A2 74DE6502 88107E41

KeyData is

F354605E EE46B9F3 9EADB1E9 7534416D
98B43CAE 8AB04AFD 53DEB37F 44022352 C3FBDE1E 2F2CEC53
1CFC324F DD0FCCA6 9B778342 70D4ED54 6720F5EF 269C95C2

FullMQV(P-256)

dsU is

5DCDF2A3 3538D7CF
93A3680D 4CB4E86A 6814DA67 AC5D8323 EDBAAA59 FAAA2DE4

QsU_x is

E960C4EA 199B35D5
4CA122BB D85A61A3 0015FB9C 1FA43BE5 C04B4642 7D5206AB

QsU_y is

4EF04F38 77329ACF
60A13454 CC169266 6497DD57 B8705B0F C9459649 7E433532

dsV is

8FED7843 1D82558D
9006C3DE B06AB58D 9DCCC971 06875C67 25D5F166 255BA90A

QsV_x is

1B1631C5 DC76D378
A914C967 29D0A594 D54B4F58 845B1D4A 4B6BE739 CA4A18EA

QsV_y is

4F85E4C9 26EE5323
90AA7CD4 14943537 25E6E804 714AA69D 67072F65 DB625E07

deU is

81426414 5F2F56F2
E96A8E33 7A128499 3FAF432A 5ABCE59E 867B7291 D507A3AF

QeU_x is

2AF502F3 BE8952F2
C9B5A8D4 160D09E9 7165BE50 BC42AE4A 5E8D3B4B A83AEB15

QeU_y is

EB0FAF4C A986C4D3
8681A0F9 872D79D5 6795BD4B FF6E6DE3 C0F5015E CE5EFD85

deV is

2CE1788E C197E096
DB95A200 CC0AB26A 19CE6BCC AD562B8E EE1B5937 61CF7F41

QeV_x is

B120DE4A A3649279
5346E8DE 6C2C8646 AE06AAEA 279FA775 B3AB0715 F6CE51B0

QeV_y is

9F1B7EEC E20D7B5E
D8EC685F A3F071D8 37270270 92A84113 85C34DDE 5708B2B6

no Key Confirmation

Z is

83050B73 1021FDBD
B13FFE9F DE0373A8 C917C6FA 8106636C 1E1F7D15 64566219

OtherInfo is

12345678 9ABCDEFO 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

D71E0F55 D4EF4431 816EE299 715EA93D
D116BDC8 803D66EA FEF37A07 5DB6A2A4 6AEF2BC5 D38A77EE
40D34283 58580E87 99A4F70A E7353D69 AD2C964A 113ABFDD

KeyData is

D71E0F55 D4EF4431 816EE299 715EA93D
D116BDC8 803D66EA FEF37A07 5DB6A2A4 6AEF2BC5 D38A77EE
40D34283 58580E87 99A4F70A E7353D69 AD2C964A 113ABFDD

Scheme Initiator, Key Confirmation Provider: U to V

Z is

83050B73 1021FDBD
B13FFE9F DE0373A8 C917C6FA 8106636C 1E1F7D15 64566219

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

D71E0F55 D4EF4431
816EE299 715EA93D D116BDC8 803D66EA FEF37A07 5DB6A2A4
6AEF2BC5 D38A77EE 40D34283 58580E87 99A4F70A E7353D69
AD2C964A 113ABFDD 8129D8D2 3847448A 934B832D E3DFCFA8

MacData is

4B435F31 5F55414C 49434542 4F424259 2AF502F3 BE8952F2
C9B5A8D4 160D09E9 7165BE50 BC42AE4A 5E8D3B4B A83AEB15
EB0FAF4C A986C4D3 8681A0F9 872D79D5 6795BD4B FF6E6DE3
C0F5015E CE5EFD85 B120DE4A A3649279 5346E8DE 6C2C8646
AE06AAEA 279FA775 B3AB0715 F6CE51B0 9F1B7EEC E20D7B5E
D8EC685F A3F071D8 37270270 92A84113 85C34DDE 5708B2B6

MacKey is

D71E0F55 D4EF4431 816EE299 715EA93D

Mtag is

19B74E52 B5966E9C
49A31324 36F17A7F 51EF40D0 15F677B7 B8F3B7BB 455CE8D0

KeyData is

D116BDC8 803D66EA FEF37A07 5DB6A2A4
6AEF2BC5 D38A77EE 40D34283 58580E87 99A4F70A E7353D69
AD2C964A 113ABFDD 8129D8D2 3847448A 934B832D E3DFCFA8

Scheme Responder, Key Confirmation Provider: V to U
Z is

83050B73 1021FDBD
B13FFE9F DE0373A8 C917C6FA 8106636C 1E1F7D15 64566219

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

D71E0F55 D4EF4431
816EE299 715EA93D D116BDC8 803D66EA FEF37A07 5DB6A2A4
6AEF2BC5 D38A77EE 40D34283 58580E87 99A4F70A E7353D69
AD2C964A 113ABFDD 8129D8D2 3847448A 934B832D E3DFCFA8

MacData is

4B435F31 5F56424F 42425941 4C494345 B120DE4A A3649279
5346E8DE 6C2C8646 AE06AAEA 279FA775 B3AB0715 F6CE51B0
9F1B7EEC E20D7B5E D8EC685F A3F071D8 37270270 92A84113
85C34DDE 5708B2B6 2AF502F3 BE8952F2 C9B5A8D4 160D09E9
7165BE50 BC42AE4A 5E8D3B4B A83AEB15 EB0FAF4C A986C4D3
8681A0F9 872D79D5 6795BD4B FF6E6DE3 C0F5015E CE5EFD85

MacKey is

D71E0F55 D4EF4431 816EE299 715EA93D

Mtag is

D638EDCF F42CAE22
BDF90E84 FA3E9CE2 55CC8FCD CA176B8B CC42A5F0 7B3E77B0

KeyData is

D116BDC8 803D66EA FEF37A07 5DB6A2A4

6AEF2BC5 D38A77EE 40D34283 58580E87 99A4F70A E7353D69
AD2C964A 113ABFDD 8129D8D2 3847448A 934B832D E3DFCFA8

Scheme Initiator, Key Confirmation Bilateral
Z is

83050B73 1021FDBD
B13FFE9F DE0373A8 C917C6FA 8106636C 1E1F7D15 64566219

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

D71E0F55 D4EF4431
816EE299 715EA93D D116BDC8 803D66EA FEF37A07 5DB6A2A4
6AEF2BC5 D38A77EE 40D34283 58580E87 99A4F70A E7353D69
AD2C964A 113ABFDD 8129D8D2 3847448A 934B832D E3DFCFA8

U2V

MacData is

4B435F32 5F55414C 49434542 4F424259 2AF502F3 BE8952F2
C9B5A8D4 160D09E9 7165BE50 BC42AE4A 5E8D3B4B A83AEB15
EB0FAF4C A986C4D3 8681A0F9 872D79D5 6795BD4B FF6E6DE3
C0F5015E CE5EFD85 B120DE4A A3649279 5346E8DE 6C2C8646
AE06AAEA 279FA775 B3AB0715 F6CE51B0 9F1B7EEC E20D7B5E
D8EC685F A3F071D8 37270270 92A84113 85C34DDE 5708B2B6

MacKey is

D71E0F55 D4EF4431 816EE299 715EA93D

Mtag is

37690854 0BEC752
958AB6CD 70AEF7DE 21091A9C C4B51B1F 64FBE347 8CBE0C84

V2U

MacData is

4B435F32 5F56424F 42425941 4C494345 B120DE4A A3649279
5346E8DE 6C2C8646 AE06AAEA 279FA775 B3AB0715 F6CE51B0
9F1B7EEC E20D7B5E D8EC685F A3F071D8 37270270 92A84113
85C34DDE 5708B2B6 2AF502F3 BE8952F2 C9B5A8D4 160D09E9
7165BE50 BC42AE4A 5E8D3B4B A83AEB15 EB0FAF4C A986C4D3
8681A0F9 872D79D5 6795BD4B FF6E6DE3 C0F5015E CE5EFD85

MacKey is

D71E0F55 D4EF4431 816EE299 715EA93D

Mtag is

8ACB634F 83232041
0F1AE1DA 4359D31B E87D3E62 2791D904 0B3A3687 948A24EE

KeyData is

D116BDC8 803D66EA FEF37A07 5DB6A2A4
6AEF2BC5 D38A77EE 40D34283 58580E87 99A4F70A E7353D69
AD2C964A 113ABFDD 8129D8D2 3847448A 934B832D E3DFCFA8

EphemeralUnifiedCDH(P-256)

deU is

81426414 5F2F56F2
E96A8E33 7A128499 3FAF432A 5ABCE59E 867B7291 D507A3AF

QeU_x is

2AF502F3 BE8952F2
C9B5A8D4 160D09E9 7165BE50 BC42AE4A 5E8D3B4B A83AEB15

QeU_y is

EB0FAF4C A986C4D3
8681A0F9 872D79D5 6795BD4B FF6E6DE3 C0F5015E CE5EFD85

deV is

2CE1788E C197E096

DB95A200 CC0AB26A 19CE6BCC AD562B8E EE1B5937 61CF7F41

QeV_x is

B120DE4A A3649279
5346E8DE 6C2C8646 AE06AAEA 279FA775 B3AB0715 F6CE51B0

QeV_y is

9F1B7EEC E20D7B5E
D8EC685F A3F071D8 37270270 92A84113 85C34DDE 5708B2B6

no Key Confirmation

Z is

DD0F5396 219D1EA3
93310412 D19A08F1 F5811E9D C8EC8EEA 7F80D21C 820C2788

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

4C664A9B CA73D981 9538F659 B4B675C7
2FB95AC2 F86527D9 8254F85E 1041CBFA 386EEA63 B4DA8803
B31383B5 44D33A0B C781F7C2 F66A8CF4 1DE148E2 D3328173

KeyData is

4C664A9B CA73D981 9538F659 B4B675C7
2FB95AC2 F86527D9 8254F85E 1041CBFA 386EEA63 B4DA8803
B31383B5 44D33A0B C781F7C2 F66A8CF4 1DE148E2 D3328173

OnePassUnifiedCDH(P-256)

dsU is

5DCDF2A3 3538D7CF
93A3680D 4CB4E86A 6814DA67 AC5D8323 EDBAAA59 FAAA2DE4

QsU_x is

E960C4EA 199B35D5
4CA122BB D85A61A3 0015FB9C 1FA43BE5 C04B4642 7D5206AB

QsU_y is

4EF04F38 77329ACF
60A13454 CC169266 6497DD57 B8705B0F C9459649 7E433532

dsV is

8FED7843 1D82558D
9006C3DE B06AB58D 9DCCC971 06875C67 25D5F166 255BA90A

QsV_x is

1B1631C5 DC76D378
A914C967 29D0A594 D54B4F58 845B1D4A 4B6BE739 CA4A18EA

QsV_y is

4F85E4C9 26EE5323
90AA7CD4 14943537 25E6E804 714AA69D 67072F65 DB625E07

deU is

81426414 5F2F56F2
E96A8E33 7A128499 3FAF432A 5ABCE59E 867B7291 D507A3AF

QeU_x is

2AF502F3 BE8952F2
C9B5A8D4 160D09E9 7165BE50 BC42AE4A 5E8D3B4B A83AEB15

QeU_y is

EB0FAF4C A986C4D3
8681A0F9 872D79D5 6795BD4B FF6E6DE3 C0F5015E CE5EFD85

no Key Confirmation

Zs is

227684E7 1F5C313F
ADC91E52 9807E314 7D53145B 15ABD6ED 416AD35C D7E6838F

Ze is

F9C34B92 ACEA12A0
C50760E5 9D06C01F 72A0A5CD 8B1BFDD7 3DC8109A 8F8151B3

Z is

F9C34B92 ACEA12A0 C50760E5 9D06C01F
72A0A5CD 8B1BFDD7 3DC8109A 8F8151B3 227684E7 1F5C313F
ADC91E52 9807E314 7D53145B 15ABD6ED 416AD35C D7E6838F

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

C9FE943A B7241197 98158A10 E50DF332
4593317C C9CBE7CD D4F99D11 B45E0C3B BAA16916 9C6D949A
87450F4D 83B67C54 ADB69BEC D6271E83 5E22A058 7919484F

KeyData is

C9FE943A B7241197 98158A10 E50DF332
4593317C C9CBE7CD D4F99D11 B45E0C3B BAA16916 9C6D949A
87450F4D 83B67C54 ADB69BEC D6271E83 5E22A058 7919484F

Scheme Initiator, Key Confirmation Provider: U to V

NonceV is

817807C9 E8826EE1
CFB2F373 26D32195 585BD75A 5140460F D9BC7139 82B4D7DA

Zs is

227684E7 1F5C313F
ADC91E52 9807E314 7D53145B 15ABD6ED 416AD35C D7E6838F

Ze is

F9C34B92 ACEA12A0
C50760E5 9D06C01F 72A0A5CD 8B1BFDD7 3DC8109A 8F8151B3

Z is

F9C34B92 ACEA12A0 C50760E5 9D06C01F
72A0A5CD 8B1BFDD7 3DC8109A 8F8151B3 227684E7 1F5C313F
ADC91E52 9807E314 7D53145B 15ABD6ED 416AD35C D7E6838F

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

C9FE943A B7241197
98158A10 E50DF332 4593317C C9CBE7CD D4F99D11 B45E0C3B
BAA16916 9C6D949A 87450F4D 83B67C54 ADB69BEC D6271E83
5E22A058 7919484F FD288D71 BB78F910 B980487C 0631603B

MacData is

4B435F31 5F55414C 49434542 4F424259
2AF502F3 BE8952F2 C9B5A8D4 160D09E9 7165BE50 BC42AE4A
5E8D3B4B A83AEB15 EB0FAF4C A986C4D3 8681A0F9 872D79D5
6795BD4B FF6E6DE3 C0F5015E CE5EFD85 817807C9 E8826EE1
CFB2F373 26D32195 585BD75A 5140460F D9BC7139 82B4D7DA

MacKey is

C9FE943A B7241197 98158A10 E50DF332

Mtag is

12DEF174 D12ADC8A
2EAFB7B4 90B9CB10 F7514FDE 21EA2A5C E856EA63 D78E94C3

KeyData is

4593317C C9CBE7CD D4F99D11 B45E0C3B
BAA16916 9C6D949A 87450F4D 83B67C54 ADB69BEC D6271E83
5E22A058 7919484F FD288D71 BB78F910 B980487C 0631603B

Scheme Responder, Key Confirmation Provider: V to U
NonceU is

817807C9 E8826EE1
CFB2F373 26D32195 585BD75A 5140460F D9BC7139 82B4D7DA

Zs is

227684E7 1F5C313F
ADC91E52 9807E314 7D53145B 15ABD6ED 416AD35C D7E6838F

Ze is

F9C34B92 ACEA12A0
C50760E5 9D06C01F 72A0A5CD 8B1BFDD7 3DC8109A 8F8151B3

Z is

F9C34B92 ACEA12A0 C50760E5 9D06C01F
72A0A5CD 8B1BFDD7 3DC8109A 8F8151B3 227684E7 1F5C313F
ADC91E52 9807E314 7D53145B 15ABD6ED 416AD35C D7E6838F

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

C9FE943A B7241197
98158A10 E50DF332 4593317C C9CBE7CD D4F99D11 B45E0C3B
BAA16916 9C6D949A 87450F4D 83B67C54 ADB69BEC D6271E83
5E22A058 7919484F FD288D71 BB78F910 B980487C 0631603B

MacData is

4B435F31 5F56424F
42425941 4C494345 2AF502F3 BE8952F2 C9B5A8D4 160D09E9
7165BE50 BC42AE4A 5E8D3B4B A83AEB15 EB0FAF4C A986C4D3
8681A0F9 872D79D5 6795BD4B FF6E6DE3 C0F5015E CE5EFD85

MacKey is

C9FE943A B7241197 98158A10 E50DF332

Mtag is

50DDD00D 351C9953
9380B9E5 06005963 2E48FC1E 4E392E69 B7A20E0D 25078FAE

KeyData is

4593317C C9CBE7CD D4F99D11 B45E0C3B
BAA16916 9C6D949A 87450F4D 83B67C54 ADB69BEC D6271E83
5E22A058 7919484F FD288D71 BB78F910 B980487C 0631603B

Scheme Initiator, Key Confirmation Bilateral
NonceV is

817807C9 E8826EE1
CFB2F373 26D32195 585BD75A 5140460F D9BC7139 82B4D7DA

Zs is

227684E7 1F5C313F
ADC91E52 9807E314 7D53145B 15ABD6ED 416AD35C D7E6838F

Ze is

F9C34B92 ACEA12A0
C50760E5 9D06C01F 72A0A5CD 8B1BFDD7 3DC8109A 8F8151B3

Z is

F9C34B92 ACEA12A0 C50760E5 9D06C01F
72A0A5CD 8B1BFDD7 3DC8109A 8F8151B3 227684E7 1F5C313F
ADC91E52 9807E314 7D53145B 15ABD6ED 416AD35C D7E6838F

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

C9FE943A B7241197
98158A10 E50DF332 4593317C C9CBE7CD D4F99D11 B45E0C3B
BAA16916 9C6D949A 87450F4D 83B67C54 ADB69BEC D6271E83
5E22A058 7919484F FD288D71 BB78F910 B980487C 0631603B

U2V

MacData is

4B435F32 5F55414C 49434542 4F424259
2AF502F3 BE8952F2 C9B5A8D4 160D09E9 7165BE50 BC42AE4A
5E8D3B4B A83AEB15 EB0FAF4C A986C4D3 8681A0F9 872D79D5
6795BD4B FF6E6DE3 C0F5015E CE5EFD85 817807C9 E8826EE1
CFB2F373 26D32195 585BD75A 5140460F D9BC7139 82B4D7DA

MacKey is

C9FE943A B7241197 98158A10 E50DF332

Mtag is

41F50954 02FAA2D8
17F0F865 03B5285D E6088DEC 4875230A 78EEE770 4CB4D96B

V2U

MacData is

4B435F32 5F56424F 42425941 4C494345
817807C9 E8826EE1 CFB2F373 26D32195 585BD75A 5140460F
D9BC7139 82B4D7DA 2AF502F3 BE8952F2 C9B5A8D4 160D09E9
7165BE50 BC42AE4A 5E8D3B4B A83AEB15 EB0FAF4C A986C4D3
8681A0F9 872D79D5 6795BD4B FF6E6DE3 C0F5015E CE5EFD85

MacKey is

C9FE943A B7241197 98158A10 E50DF332

Mtag is

8C200B72 CF72375D
30702D0B B9E3A398 1D4EA7EF F558928F 2F2F8DE5 52E016C3

KeyData is

4593317C C9CBE7CD D4F99D11 B45E0C3B
BAA16916 9C6D949A 87450F4D 83B67C54 ADB69BEC D6271E83
5E22A058 7919484F FD288D71 BB78F910 B980487C 0631603B

OnePassMQV(P-256)

dsU is

5DCDF2A3 3538D7CF
93A3680D 4CB4E86A 6814DA67 AC5D8323 EDBAAA59 FAAA2DE4

QsU_x is

E960C4EA 199B35D5
4CA122BB D85A61A3 0015FB9C 1FA43BE5 C04B4642 7D5206AB

QsU_y is

4EF04F38 77329ACF
60A13454 CC169266 6497DD57 B8705B0F C9459649 7E433532

dsV is

8FED7843 1D82558D
9006C3DE B06AB58D 9DCCC971 06875C67 25D5F166 255BA90A

QsV_x is

1B1631C5 DC76D378
A914C967 29D0A594 D54B4F58 845B1D4A 4B6BE739 CA4A18EA

QsV_y is

4F85E4C9 26EE5323
90AA7CD4 14943537 25E6E804 714AA69D 67072F65 DB625E07

deU is

81426414 5F2F56F2
E96A8E33 7A128499 3FAF432A 5ABCE59E 867B7291 D507A3AF

QeU_x is

2AF502F3 BE8952F2
C9B5A8D4 160D09E9 7165BE50 BC42AE4A 5E8D3B4B A83AEB15

QeU_y is

EB0FAF4C A986C4D3
8681A0F9 872D79D5 6795BD4B FF6E6DE3 C0F5015E CE5EFD85

no Key Confirmation

Z is

D67DA92B 55FCB46A
A03E23E5 42F4184C E93C534D 4BE9E9AC F3327355 3DD47A5B

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

139A77DD 97F7C9A3 D14F30B7 C27A0330
2F392FED 08FC8839 9FF07B8B D2E34554 08F20BBC 72322228
50F5C90A 14F52346 23C4D985 6F8C86A6 AACD2879 C4B5A626

KeyData is

139A77DD 97F7C9A3 D14F30B7 C27A0330
2F392FED 08FC8839 9FF07B8B D2E34554 08F20BBC 72322228
50F5C90A 14F52346 23C4D985 6F8C86A6 AACD2879 C4B5A626

Scheme Initiator, Key Confirmation Provider: U to V

NonceV is

817807C9 E8826EE1
CFB2F373 26D32195 585BD75A 5140460F D9BC7139 82B4D7DA

Z is

D67DA92B 55FCB46A
A03E23E5 42F4184C E93C534D 4BE9E9AC F3327355 3DD47A5B

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

139A77DD 97F7C9A3

D14F30B7 C27A0330 2F392FED 08FC8839 9FF07B8B D2E34554
08F20BBC 72322228 50F5C90A 14F52346 23C4D985 6F8C86A6
AACD2879 C4B5A626 4104CC9E A0DEF14F 11345D1F 0174389C

MacData is

4B435F31 5F55414C 49434542 4F424259
2AF502F3 BE8952F2 C9B5A8D4 160D09E9 7165BE50 BC42AE4A
5E8D3B4B A83AEB15 EB0FAF4C A986C4D3 8681A0F9 872D79D5
6795BD4B FF6E6DE3 C0F5015E CE5EFD85 817807C9 E8826EE1
CFB2F373 26D32195 585BD75A 5140460F D9BC7139 82B4D7DA

MacKey is

139A77DD 97F7C9A3 D14F30B7 C27A0330

Mtag is

8C795D0E 97C8EF29
C7A63AFE B581D6E7 53A75551 61255355 F26F35B2 56604CDD

KeyData is

2F392FED 08FC8839 9FF07B8B D2E34554
08F20BBC 72322228 50F5C90A 14F52346 23C4D985 6F8C86A6
AACD2879 C4B5A626 4104CC9E A0DEF14F 11345D1F 0174389C

Scheme Responder, Key Confirmation Provider: V to U

NonceU is

817807C9 E8826EE1
CFB2F373 26D32195 585BD75A 5140460F D9BC7139 82B4D7DA

Z is

D67DA92B 55FCB46A
A03E23E5 42F4184C E93C534D 4BE9E9AC F3327355 3DD47A5B

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

139A77DD 97F7C9A3
D14F30B7 C27A0330 2F392FED 08FC8839 9FF07B8B D2E34554
08F20BBC 72322228 50F5C90A 14F52346 23C4D985 6F8C86A6
AACD2879 C4B5A626 4104CC9E A0DEF14F 11345D1F 0174389C

MacData is

4B435F31 5F56424F
42425941 4C494345 2AF502F3 BE8952F2 C9B5A8D4 160D09E9
7165BE50 BC42AE4A 5E8D3B4B A83AEB15 EB0FAF4C A986C4D3
8681A0F9 872D79D5 6795BD4B FF6E6DE3 C0F5015E CE5EFD85

MacKey is

139A77DD 97F7C9A3 D14F30B7 C27A0330

Mtag is

518F4660 3D6E107A
1C21EFDB 8D52028B FF32400A A8BF8763 876DEDFE 410003A3

KeyData is

2F392FED 08FC8839 9FF07B8B D2E34554
08F20BBC 72322228 50F5C90A 14F52346 23C4D985 6F8C86A6
AACD2879 C4B5A626 4104CC9E A0DEF14F 11345D1F 0174389C

Scheme Initiator, Key Confirmation Bilateral

NonceV is

817807C9 E8826EE1
CFB2F373 26D32195 585BD75A 5140460F D9BC7139 82B4D7DA

Z is

D67DA92B 55FCB46A
A03E23E5 42F4184C E93C534D 4BE9E9AC F3327355 3DD47A5B

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

139A77DD 97F7C9A3
D14F30B7 C27A0330 2F392FED 08FC8839 9FF07B8B D2E34554
08F20BBC 72322228 50F5C90A 14F52346 23C4D985 6F8C86A6
AACD2879 C4B5A626 4104CC9E A0DEF14F 11345D1F 0174389C

U2V

MacData is

4B435F32 5F55414C 49434542 4F424259
2AF502F3 BE8952F2 C9B5A8D4 160D09E9 7165BE50 BC42AE4A
5E8D3B4B A83AEB15 EB0FAF4C A986C4D3 8681A0F9 872D79D5
6795BD4B FF6E6DE3 C0F5015E CE5EFD85 817807C9 E8826EE1
CFB2F373 26D32195 585BD75A 5140460F D9BC7139 82B4D7DA

MacKey is

139A77DD 97F7C9A3 D14F30B7 C27A0330

Mtag is

9C14D68B A0421C8D
70863331 AE7A6571 8575724C 49E6D27F 82DA2F9E BF8B53ED

V2U

MacData is

4B435F32 5F56424F 42425941 4C494345
817807C9 E8826EE1 CFB2F373 26D32195 585BD75A 5140460F
D9BC7139 82B4D7DA 2AF502F3 BE8952F2 C9B5A8D4 160D09E9
7165BE50 BC42AE4A 5E8D3B4B A83AEB15 EB0FAF4C A986C4D3
8681A0F9 872D79D5 6795BD4B FF6E6DE3 C0F5015E CE5EFD85

MacKey is

139A77DD 97F7C9A3 D14F30B7 C27A0330

Mtag is

ACB99F03 D04B3310
8C49EFB1 5566DD7C 2D567035 A55F2B71 FA015271 F42E8A68

KeyData is

2F392FED 08FC8839 9FF07B8B D2E34554
08F20BBC 72322228 50F5C90A 14F52346 23C4D985 6F8C86A6
AACD2879 C4B5A626 4104CC9E A0DEF14F 11345D1F 0174389C

OnePassDiffieHellmanCDH(P-256)

dsV is

8FED7843 1D82558D
9006C3DE B06AB58D 9DCCC971 06875C67 25D5F166 255BA90A

QsV_x is

1B1631C5 DC76D378
A914C967 29D0A594 D54B4F58 845B1D4A 4B6BE739 CA4A18EA

QsV_y is

4F85E4C9 26EE5323
90AA7CD4 14943537 25E6E804 714AA69D 67072F65 DB625E07

deU is

81426414 5F2F56F2
E96A8E33 7A128499 3FAF432A 5ABCE59E 867B7291 D507A3AF

QeU_x is

2AF502F3 BE8952F2
C9B5A8D4 160D09E9 7165BE50 BC42AE4A 5E8D3B4B A83AEB15

QeU_y is

EB0FAF4C A986C4D3
8681A0F9 872D79D5 6795BD4B FF6E6DE3 C0F5015E CE5EFD85

no Key Confirmation

Z is

F9C34B92 ACEA12A0

C50760E5 9D06C01F 72A0A5CD 8B1BFDD7 3DC8109A 8F8151B3

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

C5BAF92F 8EBBE330 4A6CF682 764BDC7F
55947A16 DCDB572A 0A0D20A0 5A47BBC4 37FC7C97 C2700009
C8837D75 754E5796 CDF537F 62D87E7F 5D2B6DF6 837367A8

KeyData is

C5BAF92F 8EBBE330 4A6CF682 764BDC7F
55947A16 DCDB572A 0A0D20A0 5A47BBC4 37FC7C97 C2700009
C8837D75 754E5796 CDF537F 62D87E7F 5D2B6DF6 837367A8

Scheme Responder, Key Confirmation Provider: V to U

Z is

F9C34B92 ACEA12A0
C50760E5 9D06C01F 72A0A5CD 8B1BFDD7 3DC8109A 8F8151B3

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

C5BAF92F 8EBBE330
4A6CF682 764BDC7F 55947A16 DCDB572A 0A0D20A0 5A47BBC4
37FC7C97 C2700009 C8837D75 754E5796 CDF537F 62D87E7F
5D2B6DF6 837367A8 ECE5365E 3F286630 B1D592D7 3906AD5C

MacData is

4B435F31 5F56424F
42425941 4C494345 2AF502F3 BE8952F2 C9B5A8D4 160D09E9
7165BE50 BC42AE4A 5E8D3B4B A83AEB15 EB0FAF4C A986C4D3
8681A0F9 872D79D5 6795BD4B FF6E6DE3 C0F5015E CE5EFD85

MacKey is

C5BAF92F 8EBBE330 4A6CF682 764BDC7F

Mtag is

0913AAAB 61FBE46A
F3BDCA05 8690A909 214144EC 8370C5EA C376EA45 38EE01FD

KeyData is

55947A16 DCDB572A 0A0D20A0 5A47BBC4
37FC7C97 C2700009 C8837D75 754E5796 CDFF537F 62D87E7F
5D2B6DF6 837367A8 ECE5365E 3F286630 B1D592D7 3906AD5C

StaticUnifiedCDH(P-256)

dsU is

5DCDF2A3 3538D7CF
93A3680D 4CB4E86A 6814DA67 AC5D8323 EDBAAA59 FAAA2DE4

QsU_x is

E960C4EA 199B35D5
4CA122BB D85A61A3 0015FB9C 1FA43BE5 C04B4642 7D5206AB

QsU_y is

4EF04F38 77329ACF
60A13454 CC169266 6497DD57 B8705B0F C9459649 7E433532

dsV is

8FED7843 1D82558D
9006C3DE B06AB58D 9DCCC971 06875C67 25D5F166 255BA90A

QsV_x is

1B1631C5 DC76D378
A914C967 29D0A594 D54B4F58 845B1D4A 4B6BE739 CA4A18EA

QsV_y is

4F85E4C9 26EE5323

90AA7CD4 14943537 25E6E804 714AA69D 67072F65 DB625E07

no Key Confirmation

NonceU is

817807C9 E8826EE1
CFB2F373 26D32195 585BD75A 5140460F D9BC7139 82B4D7DA

Z is

227684E7 1F5C313F
ADC91E52 9807E314 7D53145B 15ABD6ED 416AD35C D7E6838F

OtherInfo is

1234 56789ABC DEF0414C
49434531 32330001 817807C9 E8826EE1 CFB2F373 26D32195
585BD75A 5140460F D9BC7139 82B4D7DA 424F4242 59343536

DerivedKeyMaterial is

D34157A9 2C809C89 3E78FED7 AFDEA43C
FCC7F7E5 58CA9000 6E088BB4 74807F24 0843FE79 01A7CCF6
911177D2 A3E3FB36 321D9789 D01E656E CA32C417 968118A9

KeyData is

D34157A9 2C809C89 3E78FED7 AFDEA43C
FCC7F7E5 58CA9000 6E088BB4 74807F24 0843FE79 01A7CCF6
911177D2 A3E3FB36 321D9789 D01E656E CA32C417 968118A9

Scheme Initiator, Key Confirmation Provider: U to V

NonceU is

817807C9 E8826EE1
CFB2F373 26D32195 585BD75A 5140460F D9BC7139 82B4D7DA

NonceV is

604063F3 8D0FCEFB

132880D3 29415F5A 701EFD62 6E35E72B F38A29DF 2FD653C3

Z is

227684E7 1F5C313F
ADC91E52 9807E314 7D53145B 15ABD6ED 416AD35C D7E6838F

OtherInfo is

1234 56789ABC DEF0414C
49434531 32330001 817807C9 E8826EE1 CFB2F373 26D32195
585BD75A 5140460F D9BC7139 82B4D7DA 424F4242 59343536

DerivedKeyMaterial is

D34157A9 2C809C89
3E78FED7 AFDEA43C FCC7F7E5 58CA9000 6E088BB4 74807F24
0843FE79 01A7CCF6 911177D2 A3E3FB36 321D9789 D01E656E
CA32C417 968118A9 23B4925A 0989E5B5 60A38121 36A0B617

MacData is

4B435F31 5F55414C
49434542 4F424259 817807C9 E8826EE1 CFB2F373 26D32195
585BD75A 5140460F D9BC7139 82B4D7DA 604063F3 8D0FCEFB
132880D3 29415F5A 701EFD62 6E35E72B F38A29DF 2FD653C3

MacKey is

D34157A9 2C809C89 3E78FED7 AFDEA43C

Mtag is

11358781 D1E2865F
8206A688 ACFBCE80 F8D78325 2D6C0DB9 988D656D 92EB083B

KeyData is

FCC7F7E5 58CA9000 6E088BB4 74807F24
0843FE79 01A7CCF6 911177D2 A3E3FB36 321D9789 D01E656E
CA32C417 968118A9 23B4925A 0989E5B5 60A38121 36A0B617

Scheme Responder, Key Confirmation Provider: V to U

NonceV is

604063F3 8D0FCEFB
132880D3 29415F5A 701EFD62 6E35E72B F38A29DF 2FD653C3

NonceU is

817807C9 E8826EE1
CFB2F373 26D32195 585BD75A 5140460F D9BC7139 82B4D7DA

Z is

227684E7 1F5C313F
ADC91E52 9807E314 7D53145B 15ABD6ED 416AD35C D7E6838F

OtherInfo is

1234 56789ABC DEF0414C
49434531 32330001 817807C9 E8826EE1 CFB2F373 26D32195
585BD75A 5140460F D9BC7139 82B4D7DA 424F4242 59343536

DerivedKeyMaterial is

D34157A9 2C809C89
3E78FED7 AFDEA43C FCC7F7E5 58CA9000 6E088BB4 74807F24
0843FE79 01A7CCF6 911177D2 A3E3FB36 321D9789 D01E656E
CA32C417 968118A9 23B4925A 0989E5B5 60A38121 36A0B617

MacData is

4B435F31 5F56424F 42425941 4C494345 817807C9 E8826EE1
CFB2F373 26D32195 585BD75A 5140460F D9BC7139 82B4D7DA

MacKey is

D34157A9 2C809C89 3E78FED7 AFDEA43C

Mtag is

7EE04628 20045443
52E6A270 37B64D7F 39DAC02F A69A462E 14E89AF8 74BAEBC2

KeyData is

FCC7F7E5 58CA9000 6E088BB4 74807F24
0843FE79 01A7CCF6 911177D2 A3E3FB36 321D9789 D01E656E

CA32C417 968118A9 23B4925A 0989E5B5 60A38121 36A0B617

Scheme Initiator, Key Confirmation Bilateral
NonceU is

817807C9 E8826EE1
CFB2F373 26D32195 585BD75A 5140460F D9BC7139 82B4D7DA

NonceV is

604063F3 8D0FCEFB
132880D3 29415F5A 701EFD62 6E35E72B F38A29DF 2FD653C3

Z is

227684E7 1F5C313F
ADC91E52 9807E314 7D53145B 15ABD6ED 416AD35C D7E6838F

OtherInfo is

1234 56789ABC DEF0414C
49434531 32330001 817807C9 E8826EE1 CFB2F373 26D32195
585BD75A 5140460F D9BC7139 82B4D7DA 424F4242 59343536

DerivedKeyMaterial is

D34157A9 2C809C89
3E78FED7 AFDEA43C FCC7F7E5 58CA9000 6E088BB4 74807F24
0843FE79 01A7CCF6 911177D2 A3E3FB36 321D9789 D01E656E
CA32C417 968118A9 23B4925A 0989E5B5 60A38121 36A0B617

U2V

MacData is

4B435F32 5F55414C
49434542 4F424259 817807C9 E8826EE1 CFB2F373 26D32195
585BD75A 5140460F D9BC7139 82B4D7DA 604063F3 8D0FCEFB
132880D3 29415F5A 701EFD62 6E35E72B F38A29DF 2FD653C3

MacKey is

D34157A9 2C809C89 3E78FED7 AFDEA43C

Mtag is

BC463927 0152563D
FE332A90 77F13CD0 7D11D268 BFA9D1E4 C357E016 2E442A13

V2U

MacData is

4B435F32 5F56424F
42425941 4C494345 604063F3 8D0FCEFB 132880D3 29415F5A
701EFD62 6E35E72B F38A29DF 2FD653C3 817807C9 E8826EE1
CFB2F373 26D32195 585BD75A 5140460F D9BC7139 82B4D7DA

MacKey is

D34157A9 2C809C89 3E78FED7 AFDEA43C

Mtag is

955BA1CD 519C6218
4A1A8EDA DA578889 F1F2304D 91542FCF 3B163EE6 11FA0221

KeyData is

FCC7F7E5 58CA9000 6E088BB4 74807F24
0843FE79 01A7CCF6 911177D2 A3E3FB36 321D9789 D01E656E
CA32C417 968118A9 23B4925A 0989E5B5 60A38121 36A0B617

FullUnifiedCDH(P-384)

dsU is

AA46C475 14D92CB6 F565A3AE 500944F6 760D9E74 F646D3D8
9FD09E76 85C41C1F 8DCEC4D7 FA5F91E2 23624A0B EF2FEF93

QsU_x is

B6E49C4B 30E3E642 843D84F4 8ED7D5FE 7254A0BD 057137EE
77F1F9EE D74DB4C8 C43B2010 65B8009E 9A925F3D 7040BDFE

QsU_y is

F502B3F9 841EA18B D8045102 CA2ED057 19CBC63F A338252D
EB0A1154 7B948938 265509B3 E2F4C848 4C7FA78F 321A1A15

dsV is

E7B8C2B3 E5422ACF C314D93D AD7B0025 730A0B38 0F13E4FE
03BDC0E0 0D9D63DA DF4AD600 EBFAA552 57B6DADC B772BB3A

QsV_x is

42B512E1 5235D548 457B651D 9AC448E7 8872DB45 854C4D48
F0F8FCDF 31579B43 0977406B 2008B94E D061D61B BF6B1BBB

QsV_y is

BFB3ED9E 7A69D765 EFDA14DE 7D0D8ECF 9B8BB3A0 3821EE88
8F5B45E9 DF755F55 292F9263 C765C463 B3FE786E 0C909A9D

deU is

D27335EA 71664AF2 44DD14E9 FD126071 5DFD8A79 65571C48
D709EE7A 7962A156 D706A90C BCB5DF29 86F05FEA DB9376F1

QeU_x is

793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66

QeU_y is

C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0

6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128

deV is

52D1791F DB4B70F8 9C0F00D4 56C2F702 3B612526 2C36A7DF
1F802311 21CCE3D3 9BE52E00 C194A413 2C4A6C76 8BCD94D2

QeV_x is

5CD42AB9 C41B5347 F74B8D4E FB708B3D 5B36DB65 915359B4
4ABC1764 7B6B9999 789D72A8 4865AE2F 223F12B5 A1ABC120

QeV_y is

E171458F EAA939AA A3A8BFAC 46B404BD 8F6D5B34 8C0FA4D8
0CECA163 56CA9332 40BDE872 3415A8EC E035B0ED F36755DE

no Key Confirmation

Zs is

88769CB7 2FC5AC45 7CD58E89 089B196A 70BF533C 6DC91C9C
7E1741DB 5E7AB6B0 849F01DE A65FEDD0 6C77187C D88ED030

Ze is

5EA1FC4A F7256D20 55981B11 0575E0A8 CAE53160 137D904C
59D926EB 1B8456E4 27AA8A45 40884C37 DE159A58 028ABC0E

Z is

5EA1FC4A F7256D20 55981B11 0575E0A8 CAE53160 137D904C
59D926EB 1B8456E4 27AA8A45 40884C37 DE159A58 028ABC0E
88769CB7 2FC5AC45 7CD58E89 089B196A 70BF533C 6DC91C9C
7E1741DB 5E7AB6B0 849F01DE A65FEDD0 6C77187C D88ED030

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

8E6E265F 2082F14D 34DA23E1 032C9024 834AF015 72B66477
82411BDD CB84A5DA EE117BA6 FBA6D0EB 2808EF8A B07005EE

ABE52D2E FD31121C 7BF9D5FA FC40E00C 6D6DBF39 EF43FE97
15C7202C DC2DB7E8 2B88D748 EB84258B F84D8582 F2BFD940

KeyData is

8E6E265F 2082F14D 34DA23E1 032C9024 834AF015 72B66477
82411BDD CB84A5DA EE117BA6 FBA6D0EB 2808EF8A B07005EE
ABE52D2E FD31121C 7BF9D5FA FC40E00C 6D6DBF39 EF43FE97
15C7202C DC2DB7E8 2B88D748 EB84258B F84D8582 F2BFD940

Scheme Initiator, Key Confirmation Provider: U to V

Zs is

88769CB7 2FC5AC45 7CD58E89 089B196A 70BF533C 6DC91C9C
7E1741DB 5E7AB6B0 849F01DE A65FEDD0 6C77187C D88ED030

Ze is

5EA1FC4A F7256D20 55981B11 0575E0A8 CAE53160 137D904C
59D926EB 1B8456E4 27AA8A45 40884C37 DE159A58 028ABC0E

Z is

5EA1FC4A F7256D20 55981B11 0575E0A8 CAE53160 137D904C
59D926EB 1B8456E4 27AA8A45 40884C37 DE159A58 028ABC0E
88769CB7 2FC5AC45 7CD58E89 089B196A 70BF533C 6DC91C9C
7E1741DB 5E7AB6B0 849F01DE A65FEDD0 6C77187C D88ED030

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

8E6E265F 2082F14D 34DA23E1 032C9024 834AF015 72B66477
82411BDD CB84A5DA EE117BA6 FBA6D0EB 2808EF8A B07005EE
ABE52D2E FD31121C 7BF9D5FA FC40E00C 6D6DBF39 EF43FE97
15C7202C DC2DB7E8 2B88D748 EB84258B F84D8582 F2BFD940
8FF3FB6C AF48423D 583E7F9B AC45DE1A F19F3610 8ADB13F7

MacData is

4B435F31 5F55414C 49434542 4F424259

793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66
C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128
5CD42AB9 C41B5347 F74B8D4E FB708B3D 5B36DB65 915359B4
4ABC1764 7B6B9999 789D72A8 4865AE2F 223F12B5 A1ABC120
E171458F EAA939AA A3A8BFAC 46B404BD 8F6D5B34 8C0FA4D8
0CECA163 56CA9332 40BDE872 3415A8EC E035B0ED F36755DE

MacKey is

8E6E265F 2082F14D 34DA23E1 032C9024 834AF015 72B66477

Mtag is

48D78F1B A30800FD 7FA839ED 950A5FDD F885A572 A4EE2F41
C75B577B 39FEDC4E C8412235 A4F05EC0 B614B2EB D15FE6EE

KeyData is

82411BDD CB84A5DA EE117BA6 FBA6D0EB 2808EF8A B07005EE
ABE52D2E FD31121C 7BF9D5FA FC40E00C 6D6DBF39 EF43FE97
15C7202C DC2DB7E8 2B88D748 EB84258B F84D8582 F2BFD940
8FF3FB6C AF48423D 583E7F9B AC45DE1A F19F3610 8ADB13F7

Scheme Responder, Key Confirmation Provider: V to U

Zs is

88769CB7 2FC5AC45 7CD58E89 089B196A 70BF533C 6DC91C9C
7E1741DB 5E7AB6B0 849F01DE A65FEDD0 6C77187C D88ED030

Ze is

5EA1FC4A F7256D20 55981B11 0575E0A8 CAE53160 137D904C
59D926EB 1B8456E4 27AA8A45 40884C37 DE159A58 028ABC0E

Z is

5EA1FC4A F7256D20 55981B11 0575E0A8 CAE53160 137D904C
59D926EB 1B8456E4 27AA8A45 40884C37 DE159A58 028ABC0E
88769CB7 2FC5AC45 7CD58E89 089B196A 70BF533C 6DC91C9C
7E1741DB 5E7AB6B0 849F01DE A65FEDD0 6C77187C D88ED030

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

8E6E265F 2082F14D 34DA23E1 032C9024 834AF015 72B66477
82411BDD CB84A5DA EE117BA6 FBA6D0EB 2808EF8A B07005EE
ABE52D2E FD31121C 7BF9D5FA FC40E00C 6D6DBF39 EF43FE97
15C7202C DC2DB7E8 2B88D748 EB84258B F84D8582 F2BFD940
8FF3FB6C AF48423D 583E7F9B AC45DE1A F19F3610 8ADB13F7

MacData is

4B435F31 5F56424F 42425941 4C494345
5CD42AB9 C41B5347 F74B8D4E FB708B3D 5B36DB65 915359B4
4ABC1764 7B6B9999 789D72A8 4865AE2F 223F12B5 A1ABC120
E171458F EAA939AA A3A8BFAC 46B404BD 8F6D5B34 8C0FA4D8
0CECA163 56CA9332 40BDE872 3415A8EC E035B0ED F36755DE
793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66
C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128

MacKey is

8E6E265F 2082F14D 34DA23E1 032C9024 834AF015 72B66477

Mtag is

2A4E289B B91D49E2 C11FA97A 52BB78B2 CCAAC949 FD218381
442B3840 168F33F3 09728F38 BC93972B F1C121ED D0F5D01E

KeyData is

82411BDD CB84A5DA EE117BA6 FBA6D0EB 2808EF8A B07005EE
ABE52D2E FD31121C 7BF9D5FA FC40E00C 6D6DBF39 EF43FE97
15C7202C DC2DB7E8 2B88D748 EB84258B F84D8582 F2BFD940
8FF3FB6C AF48423D 583E7F9B AC45DE1A F19F3610 8ADB13F7

Scheme Initiator, Key Confirmation Bilateral

Zs is

88769CB7 2FC5AC45 7CD58E89 089B196A 70BF533C 6DC91C9C
7E1741DB 5E7AB6B0 849F01DE A65FEDD0 6C77187C D88ED030

Ze is

5EA1FC4A F7256D20 55981B11 0575E0A8 CAE53160 137D904C
59D926EB 1B8456E4 27AA8A45 40884C37 DE159A58 028ABC0E

Z is

5EA1FC4A F7256D20 55981B11 0575E0A8 CAE53160 137D904C
59D926EB 1B8456E4 27AA8A45 40884C37 DE159A58 028ABC0E
88769CB7 2FC5AC45 7CD58E89 089B196A 70BF533C 6DC91C9C
7E1741DB 5E7AB6B0 849F01DE A65FEDD0 6C77187C D88ED030

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

8E6E265F 2082F14D 34DA23E1 032C9024 834AF015 72B66477
82411BDD CB84A5DA EE117BA6 FBA6D0EB 2808EF8A B07005EE
ABE52D2E FD31121C 7BF9D5FA FC40E00C 6D6DBF39 EF43FE97
15C7202C DC2DB7E8 2B88D748 EB84258B F84D8582 F2BFD940
8FF3FB6C AF48423D 583E7F9B AC45DE1A F19F3610 8ADB13F7

U2V

MacData is

4B435F32 5F55414C 49434542 4F424259
793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66
C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128
5CD42AB9 C41B5347 F74B8D4E FB708B3D 5B36DB65 915359B4
4ABC1764 7B6B9999 789D72A8 4865AE2F 223F12B5 A1ABC120
E171458F EAA939AA A3A8BFAC 46B404BD 8F6D5B34 8C0FA4D8
0CECA163 56CA9332 40BDE872 3415A8EC E035B0ED F36755DE

MacKey is

8E6E265F 2082F14D 34DA23E1 032C9024 834AF015 72B66477

Mtag is

4B86C08B FEF2B461 8FDA5905 4CE94123 35C8E24F 089356FC
4CC07E78 832577D3 2565588B 16D48691 2A18185A 81CDEDB1

V2U

MacData is

4B435F32 5F56424F 42425941 4C494345
5CD42AB9 C41B5347 F74B8D4E FB708B3D 5B36DB65 915359B4
4ABC1764 7B6B9999 789D72A8 4865AE2F 223F12B5 A1ABC120
E171458F EAA939AA A3A8BFAC 46B404BD 8F6D5B34 8C0FA4D8
0CECA163 56CA9332 40BDE872 3415A8EC E035B0ED F36755DE
793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66
C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128

MacKey is

8E6E265F 2082F14D 34DA23E1 032C9024 834AF015 72B66477

Mtag is

AD9D7DD1 A85FD7F8 F2F3128C 732C84F5 6853A630 4FC60D57
E1A11B24 F6A55E72 B43EE727 DDBB159F 9CD76A4E 175A75BA

KeyData is

82411BDD CB84A5DA EE117BA6 FBA6D0EB 2808EF8A B07005EE
ABE52D2E FD31121C 7BF9D5FA FC40E00C 6D6DBF39 EF43FE97
15C7202C DC2DB7E8 2B88D748 EB84258B F84D8582 F2BFD940
8FF3FB6C AF48423D 583E7F9B AC45DE1A F19F3610 8ADB13F7

FullMQV(P-384)

dsU is

AA46C475 14D92CB6 F565A3AE 500944F6 760D9E74 F646D3D8
9FD09E76 85C41C1F 8DCEC4D7 FA5F91E2 23624A0B EF2FEF93

QsU_x is

B6E49C4B 30E3E642 843D84F4 8ED7D5FE 7254A0BD 057137EE

77F1F9EE D74DB4C8 C43B2010 65B8009E 9A925F3D 7040BDFE

QsU_y is

F502B3F9 841EA18B D8045102 CA2ED057 19CBC63F A338252D
EB0A1154 7B948938 265509B3 E2F4C848 4C7FA78F 321A1A15

dsV is

E7B8C2B3 E5422ACF C314D93D AD7B0025 730A0B38 0F13E4FE
03BDC0E0 0D9D63DA DF4AD600 EBFAA552 57B6DADC B772BB3A

QsV_x is

42B512E1 5235D548 457B651D 9AC448E7 8872DB45 854C4D48
F0F8FCDF 31579B43 0977406B 2008B94E D061D61B BF6B1BBB

QsV_y is

BFB3ED9E 7A69D765 EFDA14DE 7D0D8ECF 9B8BB3A0 3821EE88
8F5B45E9 DF755F55 292F9263 C765C463 B3FE786E 0C909A9D

deU is

D27335EA 71664AF2 44DD14E9 FD126071 5DFD8A79 65571C48
D709EE7A 7962A156 D706A90C BCB5DF29 86F05FEA DB9376F1

QeU_x is

793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66

QeU_y is

C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128

deV is

52D1791F DB4B70F8 9C0F00D4 56C2F702 3B612526 2C36A7DF
1F802311 21CCE3D3 9BE52E00 C194A413 2C4A6C76 8BCD94D2

QeV_x is

5CD42AB9 C41B5347 F74B8D4E FB708B3D 5B36DB65 915359B4
4ABC1764 7B6B9999 789D72A8 4865AE2F 223F12B5 A1ABC120

QeV_y is

E171458F EAA939AA A3A8BFAC 46B404BD 8F6D5B34 8C0FA4D8
0CECA163 56CA9332 40BDE872 3415A8EC E035B0ED F36755DE

no Key Confirmation

Z is

25329E26 86FFA271 D821F39C 1D3CD1FA F0D5CA3E 0BF60F30
57D62674 036DE771 50EDCE94 B28E5D21 1F8DFF9C 4C1199AB

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

1DF6B2E9 313FEE5A B5F7B447 57AB1F9C 061EB276 96F3C0F3
F42D63B8 752801BE 1CCE0D03 AB484B7A 26F2DAD0 47FD20B5
D2B79935 518D47C1 B1FD69B7 B118DE21 CB8ABC6C B0C07020
AAD2CBB3 B24B6497 CFCBE174 07D619EA EBD49141 BCB3A42C

KeyData is

1DF6B2E9 313FEE5A B5F7B447 57AB1F9C 061EB276 96F3C0F3
F42D63B8 752801BE 1CCE0D03 AB484B7A 26F2DAD0 47FD20B5
D2B79935 518D47C1 B1FD69B7 B118DE21 CB8ABC6C B0C07020
AAD2CBB3 B24B6497 CFCBE174 07D619EA EBD49141 BCB3A42C

Scheme Initiator, Key Confirmation Provider: U to V

Z is

25329E26 86FFA271 D821F39C 1D3CD1FA F0D5CA3E 0BF60F30
57D62674 036DE771 50EDCE94 B28E5D21 1F8DFF9C 4C1199AB

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

1DF6B2E9 313FEE5A B5F7B447 57AB1F9C 061EB276 96F3C0F3
F42D63B8 752801BE 1CCE0D03 AB484B7A 26F2DAD0 47FD20B5
D2B79935 518D47C1 B1FD69B7 B118DE21 CB8ABC6C B0C07020
AAD2CBB3 B24B6497 CFCBE174 07D619EA EBD49141 BCB3A42C
9103992A 26E24A91 09E4AE20 5272C3D4 1F479F8B 1BF6E931

MacData is

4B435F31 5F55414C 49434542 4F424259
793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66
C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128
5CD42AB9 C41B5347 F74B8D4E FB708B3D 5B36DB65 915359B4
4ABC1764 7B6B9999 789D72A8 4865AE2F 223F12B5 A1ABC120
E171458F EAA939AA A3A8BFAC 46B404BD 8F6D5B34 8C0FA4D8
0CECA163 56CA9332 40BDE872 3415A8EC E035B0ED F36755DE

MacKey is

1DF6B2E9 313FEE5A B5F7B447 57AB1F9C 061EB276 96F3C0F3

Mtag is

A139D711 09C0EFC1 6609A7A1 9425156F 726FA351 E80DEC4D
2BC15183 ECCE8B41 1004983D 9CF996DA FFF152E7 1BD70B0A

KeyData is

F42D63B8 752801BE 1CCE0D03 AB484B7A 26F2DAD0 47FD20B5
D2B79935 518D47C1 B1FD69B7 B118DE21 CB8ABC6C B0C07020
AAD2CBB3 B24B6497 CFCBE174 07D619EA EBD49141 BCB3A42C
9103992A 26E24A91 09E4AE20 5272C3D4 1F479F8B 1BF6E931

Scheme Responder, Key Confirmation Provider: V to U

Z is

25329E26 86FFA271 D821F39C 1D3CD1FA F0D5CA3E 0BF60F30
57D62674 036DE771 50EDCE94 B28E5D21 1F8DFF9C 4C1199AB

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

1DF6B2E9 313FEE5A B5F7B447 57AB1F9C 061EB276 96F3C0F3
F42D63B8 752801BE 1CCE0D03 AB484B7A 26F2DAD0 47FD20B5
D2B79935 518D47C1 B1FD69B7 B118DE21 CB8ABC6C B0C07020
AAD2CBB3 B24B6497 CFCBE174 07D619EA EBD49141 BCB3A42C
9103992A 26E24A91 09E4AE20 5272C3D4 1F479F8B 1BF6E931

MacData is

4B435F31 5F56424F 42425941 4C494345
5CD42AB9 C41B5347 F74B8D4E FB708B3D 5B36DB65 915359B4
4ABC1764 7B6B9999 789D72A8 4865AE2F 223F12B5 A1ABC120
E171458F EAA939AA A3A8BFAC 46B404BD 8F6D5B34 8C0FA4D8
0CECA163 56CA9332 40BDE872 3415A8EC E035B0ED F36755DE
793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66
C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128

MacKey is

1DF6B2E9 313FEE5A B5F7B447 57AB1F9C 061EB276 96F3C0F3

Mtag is

1DF9E920 5DB9591F DECB0DC6 892B1AD9 CFC9C38A 27D7F345
9CB2CBDC 95B92672 480DCB77 2861656B A9C9E5BD 7D5A1467

KeyData is

F42D63B8 752801BE 1CCE0D03 AB484B7A 26F2DAD0 47FD20B5
D2B79935 518D47C1 B1FD69B7 B118DE21 CB8ABC6C B0C07020
AAD2CBB3 B24B6497 CFCBE174 07D619EA EBD49141 BCB3A42C
9103992A 26E24A91 09E4AE20 5272C3D4 1F479F8B 1BF6E931

Scheme Initiator, Key Confirmation Bilateral

Z is

25329E26 86FFA271 D821F39C 1D3CD1FA F0D5CA3E 0BF60F30
57D62674 036DE771 50EDCE94 B28E5D21 1F8DF9C 4C1199AB

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

1DF6B2E9 313FEE5A B5F7B447 57AB1F9C 061EB276 96F3C0F3
F42D63B8 752801BE 1CCE0D03 AB484B7A 26F2DAD0 47FD20B5
D2B79935 518D47C1 B1FD69B7 B118DE21 CB8ABC6C B0C07020
AAD2CBB3 B24B6497 CFCBE174 07D619EA EBD49141 BCB3A42C
9103992A 26E24A91 09E4AE20 5272C3D4 1F479F8B 1BF6E931

U2V

MacData is

4B435F32 5F55414C 49434542 4F424259
793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66
C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128
5CD42AB9 C41B5347 F74B8D4E FB708B3D 5B36DB65 915359B4
4ABC1764 7B6B9999 789D72A8 4865AE2F 223F12B5 A1ABC120
E171458F EAA939AA A3A8BFAC 46B404BD 8F6D5B34 8C0FA4D8
0CECA163 56CA9332 40BDE872 3415A8EC E035B0ED F36755DE

MacKey is

1DF6B2E9 313FEE5A B5F7B447 57AB1F9C 061EB276 96F3C0F3

Mtag is

096852B0 1E118249 E4B7A1E1 9BE128AC 147EB34B 19B0135B
D61D33EC FC5CBEC1 EE6079AA 965C1C6A C2FEAEBF BB41E846

V2U

MacData is

4B435F32 5F56424F 42425941 4C494345
5CD42AB9 C41B5347 F74B8D4E FB708B3D 5B36DB65 915359B4
4ABC1764 7B6B9999 789D72A8 4865AE2F 223F12B5 A1ABC120
E171458F EAA939AA A3A8BFAC 46B404BD 8F6D5B34 8C0FA4D8

0CECA163 56CA9332 40BDE872 3415A8EC E035B0ED F36755DE
793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66
C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128

MacKey is

1DF6B2E9 313FEE5A B5F7B447 57AB1F9C 061EB276 96F3C0F3

Mtag is

F91066DE D3765AFA FE5006C6 E6B193EF B3EAB284 8B7042CC
37EA3302 8D52AE92 3BC9FBF1 F943FE06 CAF93CCD 01740218

KeyData is

F42D63B8 752801BE 1CCE0D03 AB484B7A 26F2DAD0 47FD20B5
D2B79935 518D47C1 B1FD69B7 B118DE21 CB8ABC6C B0C07020
AAD2CBB3 B24B6497 CFCBE174 07D619EA EBD49141 BCB3A42C
9103992A 26E24A91 09E4AE20 5272C3D4 1F479F8B 1BF6E931

EphemeralUnifiedCDH(P-384)

deU is

D27335EA 71664AF2 44DD14E9 FD126071 5DFD8A79 65571C48
D709EE7A 7962A156 D706A90C BCB5DF29 86F05FEA DB9376F1

QeU_x is

793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66

QeU_y is

C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128

deV is

52D1791F DB4B70F8 9C0F00D4 56C2F702 3B612526 2C36A7DF
1F802311 21CCE3D3 9BE52E00 C194A413 2C4A6C76 8BCD94D2

QeV_x is

5CD42AB9 C41B5347 F74B8D4E FB708B3D 5B36DB65 915359B4
4ABC1764 7B6B9999 789D72A8 4865AE2F 223F12B5 A1ABC120

QeV_y is

E171458F EAA939AA A3A8BFAC 46B404BD 8F6D5B34 8C0FA4D8
0CECA163 56CA9332 40BDE872 3415A8EC E035B0ED F36755DE

no Key Confirmation

Z is

5EA1FC4A F7256D20 55981B11 0575E0A8 CAE53160 137D904C
59D926EB 1B8456E4 27AA8A45 40884C37 DE159A58 028ABC0E

OtherInfo is

12345678 9ABCDEFO 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

95824CDC 9774A4F2 5A9DD4C2 C18A604E 0F103E54 0E80EBD7
8DD260C1 520C6E54 3C558DFB 429CCC81 FDD3DDE2 3A5DD1A6
89813FF1 17E2A33E 52A7DAE0 996F857E 99B2B5C7 4365642A
FE953EAB 155766B9 C78AE255 A74622CE DD505304 3FA716EE

KeyData is

95824CDC 9774A4F2 5A9DD4C2 C18A604E 0F103E54 0E80EBD7
8DD260C1 520C6E54 3C558DFB 429CCC81 FDD3DDE2 3A5DD1A6
89813FF1 17E2A33E 52A7DAE0 996F857E 99B2B5C7 4365642A
FE953EAB 155766B9 C78AE255 A74622CE DD505304 3FA716EE

OnePassUnifiedCDH(P-384)

dsU is

AA46C475 14D92CB6 F565A3AE 500944F6 760D9E74 F646D3D8
9FD09E76 85C41C1F 8DCEC4D7 FA5F91E2 23624A0B EF2FEF93

QsU_x is

B6E49C4B 30E3E642 843D84F4 8ED7D5FE 7254A0BD 057137EE
77F1F9EE D74DB4C8 C43B2010 65B8009E 9A925F3D 7040BDFE

QsU_y is

F502B3F9 841EA18B D8045102 CA2ED057 19CBC63F A338252D
EB0A1154 7B948938 265509B3 E2F4C848 4C7FA78F 321A1A15

dsV is

E7B8C2B3 E5422ACF C314D93D AD7B0025 730A0B38 0F13E4FE
03BDC0E0 0D9D63DA DF4AD600 EBFAA552 57B6DADC B772BB3A

QsV_x is

42B512E1 5235D548 457B651D 9AC448E7 8872DB45 854C4D48
F0F8FCDF 31579B43 0977406B 2008B94E D061D61B BF6B1BBB

QsV_y is

BFB3ED9E 7A69D765 EFDA14DE 7D0D8ECF 9B8BB3A0 3821EE88
8F5B45E9 DF755F55 292F9263 C765C463 B3FE786E 0C909A9D

deU is

D27335EA 71664AF2 44DD14E9 FD126071 5DFD8A79 65571C48
D709EE7A 7962A156 D706A90C BCB5DF29 86F05FEA DB9376F1

QeU_x is

793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66

QeU_y is

C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128

no Key Confirmation

Zs is

88769CB7 2FC5AC45 7CD58E89 089B196A 70BF533C 6DC91C9C
7E1741DB 5E7AB6B0 849F01DE A65FEDD0 6C77187C D88ED030

Ze is

B2672A91 6BE1EC91 F6A2C618 74735152 B081949C 1FF53D1E
0BC2BC29 87985A40 7AD10961 0AC0990F 8ED2867E AC2D34DF

Z is

B2672A91 6BE1EC91 F6A2C618 74735152 B081949C 1FF53D1E
0BC2BC29 87985A40 7AD10961 0AC0990F 8ED2867E AC2D34DF
88769CB7 2FC5AC45 7CD58E89 089B196A 70BF533C 6DC91C9C
7E1741DB 5E7AB6B0 849F01DE A65FEDD0 6C77187C D88ED030

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

BBB8BB84 83D17952 2D15241A 237D6C08 BD3C0161 CD3349EF
9F685494 DA85750C E7B5B585 621DDF3E 161BA9EB 253E61B4
82117082 1EC98372 C50DA5A1 B5480CCB A738E877 A2FC9081
A1C20484 9A93431A 4B959596 8340D8D1 98E64BA0 68F3856C

KeyData is

BBB8BB84 83D17952 2D15241A 237D6C08 BD3C0161 CD3349EF
9F685494 DA85750C E7B5B585 621DDF3E 161BA9EB 253E61B4
82117082 1EC98372 C50DA5A1 B5480CCB A738E877 A2FC9081
A1C20484 9A93431A 4B959596 8340D8D1 98E64BA0 68F3856C

Scheme Initiator, Key Confirmation Provider: U to V

NonceV is

F19737D1 F8452AC6 3510BC35 D3444440 F4DC2C8A EEDBF0F9
ADBA62C9 1DBF5FB7 DEC1DBDA 032C7F8C E54ACF60 2F922988

Zs is

88769CB7 2FC5AC45 7CD58E89 089B196A 70BF533C 6DC91C9C
7E1741DB 5E7AB6B0 849F01DE A65FEDD0 6C77187C D88ED030

Ze is

B2672A91 6BE1EC91 F6A2C618 74735152 B081949C 1FF53D1E
0BC2BC29 87985A40 7AD10961 0AC0990F 8ED2867E AC2D34DF

Z is

B2672A91 6BE1EC91 F6A2C618 74735152 B081949C 1FF53D1E
0BC2BC29 87985A40 7AD10961 0AC0990F 8ED2867E AC2D34DF
88769CB7 2FC5AC45 7CD58E89 089B196A 70BF533C 6DC91C9C
7E1741DB 5E7AB6B0 849F01DE A65FEDD0 6C77187C D88ED030

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

BBB8BB84 83D17952 2D15241A 237D6C08 BD3C0161 CD3349EF
9F685494 DA85750C E7B5B585 621DDF3E 161BA9EB 253E61B4
82117082 1EC98372 C50DA5A1 B5480CCB A738E877 A2FC9081
A1C20484 9A93431A 4B959596 8340D8D1 98E64BA0 68F3856C
2DD07262 81DAC0DD 7818DADC A7A4A8E4 4C540319 811CA08E

MacData is

4B435F31 5F55414C 49434542 4F424259
793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66
C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128
F19737D1 F8452AC6 3510BC35 D3444440 F4DC2C8A EEDBF0F9
ADBA62C9 1DBF5FB7 DEC1DBDA 032C7F8C E54ACF60 2F922988

MacKey is

BBB8BB84 83D17952 2D15241A 237D6C08 BD3C0161 CD3349EF

Mtag is

30AFDA64 2BCE5992 D861FDEC 68ACD4A7 EA07B9DD F6B5326A
82608A4F 2A228E52 7F729393 D5A3C13D 4ACE2201 372FA071

KeyData is

9F685494 DA85750C E7B5B585 621DDF3E 161BA9EB 253E61B4
82117082 1EC98372 C50DA5A1 B5480CCB A738E877 A2FC9081
A1C20484 9A93431A 4B959596 8340D8D1 98E64BA0 68F3856C
2DD07262 81DAC0DD 7818DADC A7A4A8E4 4C540319 811CA08E

Scheme Responder, Key Confirmation Provider: V to U

NonceU is

F19737D1 F8452AC6 3510BC35 D3444440 F4DC2C8A EEDBF0F9
ADBA62C9 1DBF5FB7 DEC1DBDA 032C7F8C E54ACF60 2F922988

Zs is

88769CB7 2FC5AC45 7CD58E89 089B196A 70BF533C 6DC91C9C
7E1741DB 5E7AB6B0 849F01DE A65FEDD0 6C77187C D88ED030

Ze is

B2672A91 6BE1EC91 F6A2C618 74735152 B081949C 1FF53D1E
0BC2BC29 87985A40 7AD10961 0AC0990F 8ED2867E AC2D34DF

Z is

B2672A91 6BE1EC91 F6A2C618 74735152 B081949C 1FF53D1E
0BC2BC29 87985A40 7AD10961 0AC0990F 8ED2867E AC2D34DF
88769CB7 2FC5AC45 7CD58E89 089B196A 70BF533C 6DC91C9C
7E1741DB 5E7AB6B0 849F01DE A65FEDD0 6C77187C D88ED030

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

BBB8BB84 83D17952 2D15241A 237D6C08 BD3C0161 CD3349EF
9F685494 DA85750C E7B5B585 621DDF3E 161BA9EB 253E61B4
82117082 1EC98372 C50DA5A1 B5480CCB A738E877 A2FC9081
A1C20484 9A93431A 4B959596 8340D8D1 98E64BA0 68F3856C
2DD07262 81DAC0DD 7818DADC A7A4A8E4 4C540319 811CA08E

MacData is

4B435F31 5F56424F 42425941 4C494345

793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66
C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128

MacKey is

BBB8BB84 83D17952 2D15241A 237D6C08 BD3C0161 CD3349EF

Mtag is

C8A6E9F3 F376380B 42DE44B5 270536AA 81969EE9 DCDBEB05
81C0E644 A7F31274 4B0E47C8 44C11B4A E7F05350 C9A46E93

KeyData is

9F685494 DA85750C E7B5B585 621DDF3E 161BA9EB 253E61B4
82117082 1EC98372 C50DA5A1 B5480CCB A738E877 A2FC9081
A1C20484 9A93431A 4B959596 8340D8D1 98E64BA0 68F3856C
2DD07262 81DAC0DD 7818DADC A7A4A8E4 4C540319 811CA08E

Scheme Initiator, Key Confirmation Bilateral

NonceV is

F19737D1 F8452AC6 3510BC35 D3444440 F4DC2C8A EEDBF0F9
ADBA62C9 1DBF5FB7 DEC1DBDA 032C7F8C E54ACF60 2F922988

Zs is

88769CB7 2FC5AC45 7CD58E89 089B196A 70BF533C 6DC91C9C
7E1741DB 5E7AB6B0 849F01DE A65FEDD0 6C77187C D88ED030

Ze is

B2672A91 6BE1EC91 F6A2C618 74735152 B081949C 1FF53D1E
0BC2BC29 87985A40 7AD10961 0AC0990F 8ED2867E AC2D34DF

Z is

B2672A91 6BE1EC91 F6A2C618 74735152 B081949C 1FF53D1E
0BC2BC29 87985A40 7AD10961 0AC0990F 8ED2867E AC2D34DF
88769CB7 2FC5AC45 7CD58E89 089B196A 70BF533C 6DC91C9C
7E1741DB 5E7AB6B0 849F01DE A65FEDD0 6C77187C D88ED030

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

BBB8BB84 83D17952 2D15241A 237D6C08 BD3C0161 CD3349EF
9F685494 DA85750C E7B5B585 621DDF3E 161BA9EB 253E61B4
82117082 1EC98372 C50DA5A1 B5480CCB A738E877 A2FC9081
A1C20484 9A93431A 4B959596 8340D8D1 98E64BA0 68F3856C
2DD07262 81DAC0DD 7818DADC A7A4A8E4 4C540319 811CA08E

U2V

MacData is

4B435F32 5F55414C 49434542 4F424259
793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66
C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128
F19737D1 F8452AC6 3510BC35 D3444440 F4DC2C8A EEDBF0F9
ADBA62C9 1DBF5FB7 DEC1DBDA 032C7F8C E54ACF60 2F922988

MacKey is

BBB8BB84 83D17952 2D15241A 237D6C08 BD3C0161 CD3349EF

Mtag is

8BAE5D2C F589947A D2619F1A D07FC5F0 5DF4685F AF36DFD7
3F70D1C6 10C98890 D97FE138 023CE4B7 47C7FC2F 84610FB6

V2U

MacData is

4B435F32 5F56424F 42425941 4C494345
F19737D1 F8452AC6 3510BC35 D3444440 F4DC2C8A EEDBF0F9
ADBA62C9 1DBF5FB7 DEC1DBDA 032C7F8C E54ACF60 2F922988
793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66
C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128

MacKey is

BBB8BB84 83D17952 2D15241A 237D6C08 BD3C0161 CD3349EF

Mtag is

FB92A939 E1E6B83F D74FA8D2 29DD7219 E238E900 C917C8E1
F570E908 007A97E3 E72F1EAC F8259620 67AE57A2 BE873EE7

KeyData is

9F685494 DA85750C E7B5B585 621DDF3E 161BA9EB 253E61B4
82117082 1EC98372 C50DA5A1 B5480CCB A738E877 A2FC9081
A1C20484 9A93431A 4B959596 8340D8D1 98E64BA0 68F3856C
2DD07262 81DAC0DD 7818DADC A7A4A8E4 4C540319 811CA08E

OnePassMQV(P-384)

dsU is

AA46C475 14D92CB6 F565A3AE 500944F6 760D9E74 F646D3D8
9FD09E76 85C41C1F 8DCEC4D7 FA5F91E2 23624A0B EF2FEF93

QsU_x is

B6E49C4B 30E3E642 843D84F4 8ED7D5FE 7254A0BD 057137EE
77F1F9EE D74DB4C8 C43B2010 65B8009E 9A925F3D 7040BDF7

QsU_y is

F502B3F9 841EA18B D8045102 CA2ED057 19CBC63F A338252D
EB0A1154 7B948938 265509B3 E2F4C848 4C7FA78F 321A1A15

dsV is

E7B8C2B3 E5422ACF C314D93D AD7B0025 730A0B38 0F13E4FE
03BDC0E0 0D9D63DA DF4AD600 EBFAA552 57B6DADC B772BB3A

QsV_x is

42B512E1 5235D548 457B651D 9AC448E7 8872DB45 854C4D48
F0F8FCDF 31579B43 0977406B 2008B94E D061D61B BF6B1BBB

QsV_y is

BFB3ED9E 7A69D765 EFDA14DE 7D0D8ECF 9B8BB3A0 3821EE88
8F5B45E9 DF755F55 292F9263 C765C463 B3FE786E 0C909A9D

deU is

D27335EA 71664AF2 44DD14E9 FD126071 5DFD8A79 65571C48
D709EE7A 7962A156 D706A90C BCB5DF29 86F05FEA DB9376F1

QeU_x is

793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66

QeU_y is

C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128

no Key Confirmation

Z is

EE9D0DAC 7A2FFA32 F77933D0 91026A94 5D913FDA EB4B8020
1E19DF45 C1902316 F95BB133 654C8002 D88BF81B EF2F4F6A

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

B95685CB 37D2439F C1EFA320 2A137842 88F4EAD2 D52FBFA0
0C3017E6 E4979AB7 ECA63546 3374B707 DEB8C25A 6511F5FF
EB03920C D04F856B 83C78BD9 A35B5EE7 89636982 88C2642C
2CF15381 CA210529 43551A30 CB5D1847 C4403CEC 5D2807D6

KeyData is

B95685CB 37D2439F C1EFA320 2A137842 88F4EAD2 D52FBFA0
0C3017E6 E4979AB7 ECA63546 3374B707 DEB8C25A 6511F5FF
EB03920C D04F856B 83C78BD9 A35B5EE7 89636982 88C2642C
2CF15381 CA210529 43551A30 CB5D1847 C4403CEC 5D2807D6

Scheme Initiator, Key Confirmation Provider: U to V

NonceV is

F19737D1 F8452AC6 3510BC35 D3444440 F4DC2C8A EEDBF0F9
ADBA62C9 1DBF5FB7 DEC1DBDA 032C7F8C E54ACF60 2F922988

Z is

EE9D0DAC 7A2FFA32 F77933D0 91026A94 5D913FDA EB4B8020
1E19DF45 C1902316 F95BB133 654C8002 D88BF81B EF2F4F6A

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

B95685CB 37D2439F C1EFA320 2A137842 88F4EAD2 D52FBFA0
0C3017E6 E4979AB7 ECA63546 3374B707 DEB8C25A 6511F5FF
EB03920C D04F856B 83C78BD9 A35B5EE7 89636982 88C2642C
2CF15381 CA210529 43551A30 CB5D1847 C4403CEC 5D2807D6
D19FABD8 4414764F 513FDD8A 1E45EB79 D8CC4BD2 8792C812

MacData is

4B435F31 5F55414C 49434542 4F424259
793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66
C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128
F19737D1 F8452AC6 3510BC35 D3444440 F4DC2C8A EEDBF0F9
ADBA62C9 1DBF5FB7 DEC1DBDA 032C7F8C E54ACF60 2F922988

MacKey is

B95685CB 37D2439F C1EFA320 2A137842 88F4EAD2 D52FBFA0

Mtag is

87C99855 88B8D0F9 7F4DC1D8 5E25D6B0 1820DB34 4FBF3468
FACAE44B 977BFE73 FB9AA595 9539A0C7 CC6DD154 8610F058

KeyData is

0C3017E6 E4979AB7 ECA63546 3374B707 DEB8C25A 6511F5FF
EB03920C D04F856B 83C78BD9 A35B5EE7 89636982 88C2642C
2CF15381 CA210529 43551A30 CB5D1847 C4403CEC 5D2807D6
D19FABD8 4414764F 513FDD8A 1E45EB79 D8CC4BD2 8792C812

Scheme Responder, Key Confirmation Provider: V to U

NonceU is

F19737D1 F8452AC6 3510BC35 D3444440 F4DC2C8A EEDBF0F9
ADBA62C9 1DBF5FB7 DEC1DBDA 032C7F8C E54ACF60 2F922988

Z is

EE9D0DAC 7A2FFA32 F77933D0 91026A94 5D913FDA EB4B8020
1E19DF45 C1902316 F95BB133 654C8002 D88BF81B EF2F4F6A

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

B95685CB 37D2439F C1EFA320 2A137842 88F4EAD2 D52FBFA0
0C3017E6 E4979AB7 ECA63546 3374B707 DEB8C25A 6511F5FF
EB03920C D04F856B 83C78BD9 A35B5EE7 89636982 88C2642C
2CF15381 CA210529 43551A30 CB5D1847 C4403CEC 5D2807D6
D19FABD8 4414764F 513FDD8A 1E45EB79 D8CC4BD2 8792C812

MacData is

4B435F31 5F56424F 42425941 4C494345
793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66
C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128

MacKey is

B95685CB 37D2439F C1EFA320 2A137842 88F4EAD2 D52FBFA0

Mtag is

D75DECD4 5AFF89A8 D1F1224A 587AA819 2F9F9C85 50145776
BC55AFC0 C6B6081C 165FD393 61C45F4A BA4B557F 5FF0AC9F

KeyData is

0C3017E6 E4979AB7 ECA63546 3374B707 DEB8C25A 6511F5FF
EB03920C D04F856B 83C78BD9 A35B5EE7 89636982 88C2642C
2CF15381 CA210529 43551A30 CB5D1847 C4403CEC 5D2807D6
D19FABD8 4414764F 513FDD8A 1E45EB79 D8CC4BD2 8792C812

Scheme Initiator, Key Confirmation Bilateral

NonceV is

F19737D1 F8452AC6 3510BC35 D3444440 F4DC2C8A EEDBF0F9
ADBA62C9 1DBF5FB7 DEC1DBDA 032C7F8C E54ACF60 2F922988

Z is

EE9D0DAC 7A2FFA32 F77933D0 91026A94 5D913FDA EB4B8020
1E19DF45 C1902316 F95BB133 654C8002 D88BF81B EF2F4F6A

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

B95685CB 37D2439F C1EFA320 2A137842 88F4EAD2 D52FBFA0
0C3017E6 E4979AB7 ECA63546 3374B707 DEB8C25A 6511F5FF
EB03920C D04F856B 83C78BD9 A35B5EE7 89636982 88C2642C
2CF15381 CA210529 43551A30 CB5D1847 C4403CEC 5D2807D6
D19FABD8 4414764F 513FDD8A 1E45EB79 D8CC4BD2 8792C812

U2V

MacData is

4B435F32 5F55414C 49434542 4F424259
793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66
C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128
F19737D1 F8452AC6 3510BC35 D3444440 F4DC2C8A EEDBF0F9

ADBA62C9 1DBF5FB7 DEC1DBDA 032C7F8C E54ACF60 2F922988

MacKey is

B95685CB 37D2439F C1EFA320 2A137842 88F4EAD2 D52FBFA0

Mtag is

EEFF3280 6231D206 46383A7F BBF244E2 FF823922 BBDF9EFF
72FA7908 3E3DBBA1 308A3583 BD65B5FC BAB91282 3E2D7DBF

V2U

MacData is

4B435F32 5F56424F 42425941 4C494345
F19737D1 F8452AC6 3510BC35 D3444440 F4DC2C8A EEDBF0F9
ADBA62C9 1DBF5FB7 DEC1DBDA 032C7F8C E54ACF60 2F922988
793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66
C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128

MacKey is

B95685CB 37D2439F C1EFA320 2A137842 88F4EAD2 D52FBFA0

Mtag is

65609F84 0027D9B1 3035EA69 450C4DBE 49A0D34A BFFE2FEA
EAF67FCC E1093264 A90D2BDF 317FA9C7 D90EE22B 1D916E57

KeyData is

0C3017E6 E4979AB7 ECA63546 3374B707 DEB8C25A 6511F5FF
EB03920C D04F856B 83C78BD9 A35B5EE7 89636982 88C2642C
2CF15381 CA210529 43551A30 CB5D1847 C4403CEC 5D2807D6
D19FABD8 4414764F 513FDD8A 1E45EB79 D8CC4BD2 8792C812

OnePassDiffieHellmanCDH(P-384)

dsV is

E7B8C2B3 E5422ACF C314D93D AD7B0025 730A0B38 0F13E4FE

03BDC0E0 0D9D63DA DF4AD600 EBFAA552 57B6DADC B772BB3A

QsV_x is

42B512E1 5235D548 457B651D 9AC448E7 8872DB45 854C4D48
F0F8FCDF 31579B43 0977406B 2008B94E D061D61B BF6B1BBB

QsV_y is

BFB3ED9E 7A69D765 EFDA14DE 7D0D8ECF 9B8BB3A0 3821EE88
8F5B45E9 DF755F55 292F9263 C765C463 B3FE786E 0C909A9D

deU is

D27335EA 71664AF2 44DD14E9 FD126071 5DFD8A79 65571C48
D709EE7A 7962A156 D706A90C BCB5DF29 86F05FEA DB9376F1

QeU_x is

793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66

QeU_y is

C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128

no Key Confirmation

Z is

B2672A91 6BE1EC91 F6A2C618 74735152 B081949C 1FF53D1E
0BC2BC29 87985A40 7AD10961 0AC0990F 8ED2867E AC2D34DF

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

9F14D953 BE79A0F0 19FBEC23 0574FEF2 0FDD37E7 68E01C3E
B5EDDD24 BB2682D9 44731656 7DAA372E FA5CB467 61F50402
A7D7B473 A280DE54 C56D7FE8 56BBD745 52148D85 D7625678
56B080E0 DABE441D 59520D45 14017736 5F9CACF1 1B54DB2E

KeyData is

9F14D953 BE79A0F0 19FBEC23 0574FEF2 0FDD37E7 68E01C3E
B5EDDD24 BB2682D9 44731656 7DAA372E FA5CB467 61F50402
A7D7B473 A280DE54 C56D7FE8 56BBD745 52148D85 D7625678
56B080E0 DABE441D 59520D45 14017736 5F9CACF1 1B54DB2E

Scheme Responder, Key Confirmation Provider: V to U

Z is

B2672A91 6BE1EC91 F6A2C618 74735152 B081949C 1FF53D1E
0BC2BC29 87985A40 7AD10961 0AC0990F 8ED2867E AC2D34DF

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

9F14D953 BE79A0F0 19FBEC23 0574FEF2 0FDD37E7 68E01C3E
B5EDDD24 BB2682D9 44731656 7DAA372E FA5CB467 61F50402
A7D7B473 A280DE54 C56D7FE8 56BBD745 52148D85 D7625678
56B080E0 DABE441D 59520D45 14017736 5F9CACF1 1B54DB2E
730EA8FB BFA8FE4A 6227F998 CC4DBA63 6136F159 001059CF

MacData is

4B435F31 5F56424F 42425941 4C494345
793148F1 787634D5 DA4C6D90 74417D05 E057AB62 F82054D1
0EE6B040 3D627954 7E6A8EA9 D1FD7742 7D016FE2 7A8B8C66
C6C41294 331D23E6 F480F4FB 4CD40504 C947392E 94F4C3F0
6B8F398B B29E4236 8F7A6859 23DE3B67 BACED214 A1A1D128

MacKey is

9F14D953 BE79A0F0 19FBEC23 0574FEF2 0FDD37E7 68E01C3E

Mtag is

545245CD CFB724EB 57BA7FD0 B7B21A3D EC7B953E 54A1ABE6
696D912C 0277EC2E C2830F0B 7E53F58D C2B368A0 5A58093F

KeyData is

B5EDDD24 BB2682D9 44731656 7DAA372E FA5CB467 61F50402
A7D7B473 A280DE54 C56D7FE8 56BBD745 52148D85 D7625678
56B080E0 DABE441D 59520D45 14017736 5F9CACF1 1B54DB2E
730EA8FB BFA8FE4A 6227F998 CC4DBA63 6136F159 001059CF

StaticUnifiedCDH(P-384)

dsU is

AA46C475 14D92CB6 F565A3AE 500944F6 760D9E74 F646D3D8
9FD09E76 85C41C1F 8DCEC4D7 FA5F91E2 23624A0B EF2FEF93

QsU_x is

B6E49C4B 30E3E642 843D84F4 8ED7D5FE 7254A0BD 057137EE
77F1F9EE D74DB4C8 C43B2010 65B8009E 9A925F3D 7040BDFD

QsU_y is

F502B3F9 841EA18B D8045102 CA2ED057 19CBC63F A338252D
EB0A1154 7B948938 265509B3 E2F4C848 4C7FA78F 321A1A15

dsV is

E7B8C2B3 E5422ACF C314D93D AD7B0025 730A0B38 0F13E4FE
03BDC0E0 0D9D63DA DF4AD600 EBFAA552 57B6DADC B772BB3A

QsV_x is

42B512E1 5235D548 457B651D 9AC448E7 8872DB45 854C4D48
F0F8FCDF 31579B43 0977406B 2008B94E D061D61B BF6B1BBB

QsV_y is

BFB3ED9E 7A69D765 EFDA14DE 7D0D8ECF 9B8BB3A0 3821EE88
8F5B45E9 DF755F55 292F9263 C765C463 B3FE786E 0C909A9D

no Key Confirmation

NonceU is

F19737D1 F8452AC6 3510BC35 D3444440 F4DC2C8A EEDBF0F9
ADBA62C9 1DBF5FB7 DEC1DBDA 032C7F8C E54ACF60 2F922988

Z is

88769CB7 2FC5AC45 7CD58E89 089B196A 70BF533C 6DC91C9C
7E1741DB 5E7AB6B0 849F01DE A65FEDD0 6C77187C D88ED030

OtherInfo is

1234
56789ABC DEF0414C 49434531 32338001 F19737D1 F8452AC6
3510BC35 D3444440 F4DC2C8A EEDBF0F9 ADBA62C9 1DBF5FB7
DEC1DBDA 032C7F8C E54ACF60 2F922988 424F4242 59343536

DerivedKeyMaterial is

973A6753 E146E77B 32F134EF 72394029 C0686DC4 3BB6D9EF
E3291C4A 38399224 CD519938 122C6472 FAF19EE1 4997A2A7
3A607E72 C639ABD9 A405E086 D1BB79B8 CD9E7C97 B5D8FD56
DD35593C 8376A0A5 39863BB0 53201319 FCBEFC7C DD5450CB

KeyData is

973A6753 E146E77B 32F134EF 72394029 C0686DC4 3BB6D9EF
E3291C4A 38399224 CD519938 122C6472 FAF19EE1 4997A2A7
3A607E72 C639ABD9 A405E086 D1BB79B8 CD9E7C97 B5D8FD56
DD35593C 8376A0A5 39863BB0 53201319 FCBEFC7C DD5450CB

Scheme Initiator, Key Confirmation Provider: U to V

NonceU is

F19737D1 F8452AC6 3510BC35 D3444440 F4DC2C8A EEDBF0F9
ADBA62C9 1DBF5FB7 DEC1DBDA 032C7F8C E54ACF60 2F922988

NonceV is

5A452352 1700C41A AED50DE4 BA622E46 FADAC9BE 771DBD0F
95664DF2 D4116AD2 B58136C2 87DE481D A491F4AC 2CAA687F

Z is

88769CB7 2FC5AC45 7CD58E89 089B196A 70BF533C 6DC91C9C
7E1741DB 5E7AB6B0 849F01DE A65FEDD0 6C77187C D88ED030

OtherInfo is

1234

56789ABC DEF0414C 49434531 32338001 F19737D1 F8452AC6
3510BC35 D3444440 F4DC2C8A EEDBF0F9 ADBA62C9 1DBF5FB7
DEC1DBDA 032C7F8C E54ACF60 2F922988 424F4242 59343536

DerivedKeyMaterial is

973A6753 E146E77B 32F134EF 72394029 C0686DC4 3BB6D9EF
E3291C4A 38399224 CD519938 122C6472 FAF19EE1 4997A2A7
3A607E72 C639ABD9 A405E086 D1BB79B8 CD9E7C97 B5D8FD56
DD35593C 8376A0A5 39863BB0 53201319 FCBEFC7C DD5450CB
33BDBE3F 58C025CE 51B9196A DB386F8F 5FEB7DF7 AB7433B9

MacData is

4B435F31 5F55414C 49434542 4F424259
F19737D1 F8452AC6 3510BC35 D3444440 F4DC2C8A EEDBF0F9
ADBA62C9 1DBF5FB7 DEC1DBDA 032C7F8C E54ACF60 2F922988
5A452352 1700C41A AED50DE4 BA622E46 FADAC9BE 771DBD0F
95664DF2 D4116AD2 B58136C2 87DE481D A491F4AC 2CAA687F

MacKey is

973A6753 E146E77B 32F134EF 72394029 C0686DC4 3BB6D9EF

Mtag is

7638E87E 6D616F2B 3DE4A120 EF20CCAC 21AFD521 69B9E100
FD426AB7 3AE8A2E7 D9C564F9 E2F9D8C2 27A600DC 1297050C

KeyData is

E3291C4A 38399224 CD519938 122C6472 FAF19EE1 4997A2A7
3A607E72 C639ABD9 A405E086 D1BB79B8 CD9E7C97 B5D8FD56
DD35593C 8376A0A5 39863BB0 53201319 FCBEFC7C DD5450CB
33BDBE3F 58C025CE 51B9196A DB386F8F 5FEB7DF7 AB7433B9

Scheme Responder, Key Confirmation Provider: V to U

NonceV is

5A452352 1700C41A AED50DE4 BA622E46 FADAC9BE 771DBD0F
95664DF2 D4116AD2 B58136C2 87DE481D A491F4AC 2CAA687F

NonceU is

F19737D1 F8452AC6 3510BC35 D3444440 F4DC2C8A EEDBF0F9
ADBA62C9 1DBF5FB7 DEC1DBDA 032C7F8C E54ACF60 2F922988

Z is

88769CB7 2FC5AC45 7CD58E89 089B196A 70BF533C 6DC91C9C
7E1741DB 5E7AB6B0 849F01DE A65FEDD0 6C77187C D88ED030

OtherInfo is

1234
56789ABC DEF0414C 49434531 32338001 F19737D1 F8452AC6
3510BC35 D3444440 F4DC2C8A EEDBF0F9 ADBA62C9 1DBF5FB7
DEC1DBDA 032C7F8C E54ACF60 2F922988 424F4242 59343536

DerivedKeyMaterial is

973A6753 E146E77B 32F134EF 72394029 C0686DC4 3BB6D9EF
E3291C4A 38399224 CD519938 122C6472 FAF19EE1 4997A2A7
3A607E72 C639ABD9 A405E086 D1BB79B8 CD9E7C97 B5D8FD56
DD35593C 8376A0A5 39863BB0 53201319 FCBEFC7C DD5450CB
33BDBE3F 58C025CE 51B9196A DB386F8F 5FEB7DF7 AB7433B9

MacData is

4B435F31 5F56424F 42425941 4C494345
F19737D1 F8452AC6 3510BC35 D3444440 F4DC2C8A EEDBF0F9
ADBA62C9 1DBF5FB7 DEC1DBDA 032C7F8C E54ACF60 2F922988

MacKey is

973A6753 E146E77B 32F134EF 72394029 C0686DC4 3BB6D9EF

Mtag is

E39200D9 02F1193F F39B7FB3 683F1BB0 D8945BD2 9D1F6E38
4B71684A 7B1B92B6 005EB0BA 76FE53B4 3E604498 9820C623

KeyData is

E3291C4A 38399224 CD519938 122C6472 FAF19EE1 4997A2A7
3A607E72 C639ABD9 A405E086 D1BB79B8 CD9E7C97 B5D8FD56
DD35593C 8376A0A5 39863BB0 53201319 FCBEFC7C DD5450CB
33BDBE3F 58C025CE 51B9196A DB386F8F 5FEB7DF7 AB7433B9

Scheme Initiator, Key Confirmation Bilateral

NonceU is

F19737D1 F8452AC6 3510BC35 D3444440 F4DC2C8A EEDBF0F9
ADBA62C9 1DBF5FB7 DEC1DBDA 032C7F8C E54ACF60 2F922988

NonceV is

5A452352 1700C41A AED50DE4 BA622E46 FADAC9BE 771DBD0F
95664DF2 D4116AD2 B58136C2 87DE481D A491F4AC 2CAA687F

Z is

88769CB7 2FC5AC45 7CD58E89 089B196A 70BF533C 6DC91C9C
7E1741DB 5E7AB6B0 849F01DE A65FEDD0 6C77187C D88ED030

OtherInfo is

1234
56789ABC DEF0414C 49434531 32338001 F19737D1 F8452AC6
3510BC35 D3444440 F4DC2C8A EEDBF0F9 ADBA62C9 1DBF5FB7
DEC1DBDA 032C7F8C E54ACF60 2F922988 424F4242 59343536

DerivedKeyMaterial is

973A6753 E146E77B 32F134EF 72394029 C0686DC4 3BB6D9EF
E3291C4A 38399224 CD519938 122C6472 FAF19EE1 4997A2A7
3A607E72 C639ABD9 A405E086 D1BB79B8 CD9E7C97 B5D8FD56
DD35593C 8376A0A5 39863BB0 53201319 FCBEFC7C DD5450CB
33BDBE3F 58C025CE 51B9196A DB386F8F 5FEB7DF7 AB7433B9

U2V

MacData is

4B435F32 5F55414C 49434542 4F424259

F19737D1 F8452AC6 3510BC35 D3444440 F4DC2C8A EEDBF0F9
ADBA62C9 1DBF5FB7 DEC1DBDA 032C7F8C E54ACF60 2F922988
5A452352 1700C41A AED50DE4 BA622E46 FADAC9BE 771DBD0F
95664DF2 D4116AD2 B58136C2 87DE481D A491F4AC 2CAA687F

MacKey is

973A6753 E146E77B 32F134EF 72394029 C0686DC4 3BB6D9EF

Mtag is

EB224525 C906CBF9 FF252E37 AF00020E 93D397B5 014A6051
4062C08F 3949DBD7 D097F22D 691CCC87 7DB2FE64 746F9CEA

V2U

MacData is

4B435F32 5F56424F 42425941 4C494345
5A452352 1700C41A AED50DE4 BA622E46 FADAC9BE 771DBD0F
95664DF2 D4116AD2 B58136C2 87DE481D A491F4AC 2CAA687F
F19737D1 F8452AC6 3510BC35 D3444440 F4DC2C8A EEDBF0F9
ADBA62C9 1DBF5FB7 DEC1DBDA 032C7F8C E54ACF60 2F922988

MacKey is

973A6753 E146E77B 32F134EF 72394029 C0686DC4 3BB6D9EF

Mtag is

1DD2EC31 FFBF133F 9F1908E1 E3F2F206 05EC5675 5D168381
499D7296 7AD75398 C5DAE6D0 B6DE4EB1 819D199D D77F51A0

KeyData is

E3291C4A 38399224 CD519938 122C6472 FAF19EE1 4997A2A7
3A607E72 C639ABD9 A405E086 D1BB79B8 CD9E7C97 B5D8FD56
DD35593C 8376A0A5 39863BB0 53201319 FCBEFC7C DD5450CB
33BDBE3F 58C025CE 51B9196A DB386F8F 5FEB7DF7 AB7433B9

FullUnifiedCDH(P-521)

dsU is

017D 1527DCC7 C046E4D3 04600ED0 D3A625F6
AA46C475 14D92CB6 A6416C1B 8978B3E6 E9796830 6FFC49D0
0371CCBD 4B796AA3 6547A6ED 3E78BBDF F2CFF34C E4C57FC9

QsU_x is

00D0 C2D9A667 F85A3C27 0C838535 04616791
F3052858 3CF2D5CD D35D4E77 D440FE51 01DFC0E1 953983A9
C1D7C330 7E6213FB CEB3D113 460D7B45 BBACAE5D 54B68166

QsU_y is

01C8 A85F0367 B3B1F4DE 8A74021E 08E13EA5
65EF012E 647DD317 3B21DD6B B9987155 73063EBB 3152CAA7
91ABD47F D31FB528 799413F8 DFF76E28 64E9870A 262ECACB

dsV is

00A0 752E306C ECD87AB0 E4830DA1 44F8038C
E7B8C2B3 E5422ACF 9AAA6CCF 21818316 9A4CCA2A D577A64E
6D86DCBF F5C1727A 11FD1CB8 E3A53842 B84005FD A9AC7F36

QsV_x is

0128 C16B23A4 259C9FE4 257C1DA4 3C7735C4
3337929E 0FD86CC2 A778975B 67184CC2 825F6E66 7876D404
BBF03E04 1F8FAD2F CCC036CD 5448B64E 9BD7DF6F 537659BB

QsV_y is

0108 089A6431 FED52344 DD5859A0 E5432D16
9BEE36F5 3F857AED 08A69FE3 07B1C94B 8ABDCF65 0C4D1297
29D69FB7 7D1CC1CD 651C676B 309CE018 C9771EAB 9CA5A754

deU is

0113 F82DA825 735E3D97 276683B2 B74277BA
D27335EA 71664AF2 430CC4F3 3459B966 9EE78B3F FB9B8683
015D344D CBFEF6FB 9AF4C6C4 70BE2545 16CD3C1A 1FB47362

QeU_x is

01EB B34DD757 21ABF8AD C9DBED17 889CBB97
65D90A7C 60F2CEF0 07BB0F2B 26E14881 FD4442E6 89D61CB2
DD046EE3 0E3FFD20 F9A45BBB F6413D58 3A2DBF59 924FD35C

QeU_y is

00F6 B632D194 C0388E22 D8437E55 8C552AE1
95ADFD15 3F92D749 08351B2F 8C4EDA94 EDB0916D 1B53C020
B5EECAED 1A5FC38A 233E4830 587BB2EE 3489B3B4 2A5A86A4

deV is

00CE E3480D86 45A17D24 9F2776D2 8BAE6169
52D1791F DB4B70F7 C3378732 AA1B2292 8448BCD1 DC2496D4
35B01048 066EBE4F 72903C36 1B1A9DC1 193DC2C9 D0891B96

QeV_x is

010E BFAFC6E8 5E08D24B FFFCC1A4 511DB0E6
34BEEB1B 6DEC8C59 39AE4476 6201AF62 00430BA9 7C8AC6A0
E9F08B33 CE7E9FEE B5BA4EE5 E0D81510 C24295B8 A08D0235

QeV_y is

00A4 A6EC300D F9E257B0 372B5E7A BFEF0934
36719A77 887EBB0B 18CF8099 B9F4212B 6E30A141 9C18E029
D36863CC 9D448F4D BA4D2A0E 60711BE5 72915FBD 4FEF2695

no Key Confirmation

Zs is

0138 A672B695 8BD784E5 D7FA8373 8AC68F9B
3423B483 F9BF539E 71141E45 DBFB7AFE D18B11C0 028B13F1
F860EF43 C480F4DA CDA20810 59D3978C 999D5D1A DE3454E4

Ze is

00CD EA89621C FA46B132 F9E4CFE2 261CDE2D
4368EB56 56634C7C C98C7A00 CDE54ED1 866A0DD3 E6126C9D
2F845DAF F82CEB1D A08F5D87 521BB0EB ECA77911 169C20CC

Z is

00CDEA89 621CFA46 B132F9E4
CFE2261C DE2D4368 EB565663 4C7CC98C 7A00CDE5 4ED1866A
0DD3E612 6C9D2F84 5DAFF82C EB1DA08F 5D87521B B0EBECA7
7911169C 20CC0138 A672B695 8BD784E5 D7FA8373 8AC68F9B
3423B483 F9BF539E 71141E45 DBFB7AFE D18B11C0 028B13F1
F860EF43 C480F4DA CDA20810 59D3978C 999D5D1A DE3454E4

OtherInfo is

12345678 9ABCDEFO 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

2D4A46A1 7099BAA8
330BC59D 4A1CF5AE 3A3075B4 C62BB26E 7FC98924 726D274C
09646F44 08E6858C 43B42DAE D015EF26 1708D55E F24DAA7D
3EA3D1C4 A08CFD24 DB6000A5 B8A67DE7 46F3D3F4 FF348515
8FD3B691 55791DF4 6747D4DB BE17C4B5 58462E26 BE5ED35F
E680E297 1422C3B0 1B17E167 FC437F84 869D8549 537B3338

KeyData is

2D4A46A1 7099BAA8
330BC59D 4A1CF5AE 3A3075B4 C62BB26E 7FC98924 726D274C
09646F44 08E6858C 43B42DAE D015EF26 1708D55E F24DAA7D
3EA3D1C4 A08CFD24 DB6000A5 B8A67DE7 46F3D3F4 FF348515
8FD3B691 55791DF4 6747D4DB BE17C4B5 58462E26 BE5ED35F
E680E297 1422C3B0 1B17E167 FC437F84 869D8549 537B3338

Scheme Initiator, Key Confirmation Provider: U to V

Zs is

0138 A672B695 8BD784E5 D7FA8373 8AC68F9B
3423B483 F9BF539E 71141E45 DBFB7AFE D18B11C0 028B13F1
F860EF43 C480F4DA CDA20810 59D3978C 999D5D1A DE3454E4

Ze is

00CD EA89621C FA46B132 F9E4CFE2 261CDE2D
4368EB56 56634C7C C98C7A00 CDE54ED1 866A0DD3 E6126C9D
2F845DAF F82CEB1D A08F5D87 521BB0EB ECA77911 169C20CC

Z is

00CDEA89 621CFA46 B132F9E4
CFE2261C DE2D4368 EB565663 4C7CC98C 7A00CDE5 4ED1866A
0DD3E612 6C9D2F84 5DAFF82C EB1DA08F 5D87521B B0EBECA7
7911169C 20CC0138 A672B695 8BD784E5 D7FA8373 8AC68F9B
3423B483 F9BF539E 71141E45 DBFB7AFE D18B11C0 028B13F1
F860EF43 C480F4DA CDA20810 59D3978C 999D5D1A DE3454E4

OtherInfo is

12345678 9ABCDEFO 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

2D4A46A1 7099BAA8 330BC59D 4A1CF5AE
3A3075B4 C62BB26E 7FC98924 726D274C 09646F44 08E6858C
43B42DAE D015EF26 1708D55E F24DAA7D 3EA3D1C4 A08CFD24
DB6000A5 B8A67DE7 46F3D3F4 FF348515 8FD3B691 55791DF4
6747D4DB BE17C4B5 58462E26 BE5ED35F E680E297 1422C3B0
1B17E167 FC437F84 869D8549 537B3338 50F0B78E 5CAD4ED6
E0635DAE 1DCCA0EB 448F3BD1 3A0CDD9 BE162CDF 3EF23175

MacData is

4B435F31 5F55414C 49434542 4F424259
01EBB34D D75721AB F8ADC9DB ED17889C BB9765D9 0A7C60F2
CEF007BB 0F2B26E1 4881FD44 42E689D6 1CB2DD04 6EE30E3F
FD20F9A4 5BBDF641 3D583A2D BF59924F D35C00F6 B632D194
C0388E22 D8437E55 8C552AE1 95ADFD15 3F92D749 08351B2F
8C4EDA94 EDB0916D 1B53C020 B5EECAED 1A5FC38A 233E4830
587BB2EE 3489B3B4 2A5A86A4 010EBFAF C6E85E08 D24BFFFC
C1A4511D B0E634BE EB1B6DEC 8C5939AE 44766201 AF620043
0BA97C8A C6A0E9F0 8B33CE7E 9FEEB5BA 4EE5E0D8 1510C242
95B8A08D 023500A4 A6EC300D F9E257B0 372B5E7A BFEF0934
36719A77 887EBB0B 18CF8099 B9F4212B 6E30A141 9C18E029
D36863CC 9D448F4D BA4D2A0E 60711BE5 72915FBD 4FEF2695

MacKey is

2D4A46A1 7099BAA8
330BC59D 4A1CF5AE 3A3075B4 C62BB26E 7FC98924 726D274C

Mtag is

39AB0A29 E9A2E245 D6897BF7 CF51D6ED

7AA59EBE E1E86820 F96B1804 1B158070 6D1911FA CDCCC8B6
5B1328BD C0EB6AE0 F2C91A0C B53CDBBE 0D298A54 413D49F2

KeyData is

09646F44 08E6858C
43B42DAE D015EF26 1708D55E F24DAA7D 3EA3D1C4 A08CFD24
DB6000A5 B8A67DE7 46F3D3F4 FF348515 8FD3B691 55791DF4
6747D4DB BE17C4B5 58462E26 BE5ED35F E680E297 1422C3B0
1B17E167 FC437F84 869D8549 537B3338 50F0B78E 5CAD4ED6
E0635DAE 1DCCA0EB 448F3BD1 3A0CDBB9 BE162CDF 3EF23175

Scheme Responder, Key Confirmation Provider: V to U

Zs is

0138 A672B695 8BD784E5 D7FA8373 8AC68F9B
3423B483 F9BF539E 71141E45 DBFB7AFE D18B11C0 028B13F1
F860EF43 C480F4DA CDA20810 59D3978C 999D5D1A DE3454E4

Ze is

00CD EA89621C FA46B132 F9E4CFE2 261CDE2D
4368EB56 56634C7C C98C7A00 CDE54ED1 866A0DD3 E6126C9D
2F845DAF F82CEB1D A08F5D87 521BB0EB ECA77911 169C20CC

Z is

00CDEA89 621CFA46 B132F9E4
CFE2261C DE2D4368 EB565663 4C7CC98C 7A00CDE5 4ED1866A
0DD3E612 6C9D2F84 5DAFF82C EB1DA08F 5D87521B B0EBECA7
7911169C 20CC0138 A672B695 8BD784E5 D7FA8373 8AC68F9B
3423B483 F9BF539E 71141E45 DBFB7AFE D18B11C0 028B13F1
F860EF43 C480F4DA CDA20810 59D3978C 999D5D1A DE3454E4

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

2D4A46A1 7099BAA8 330BC59D 4A1CF5AE
3A3075B4 C62BB26E 7FC98924 726D274C 09646F44 08E6858C
43B42DAE D015EF26 1708D55E F24DAA7D 3EA3D1C4 A08CFD24

DB6000A5 B8A67DE7 46F3D3F4 FF348515 8FD3B691 55791DF4
6747D4DB BE17C4B5 58462E26 BE5ED35F E680E297 1422C3B0
1B17E167 FC437F84 869D8549 537B3338 50F0B78E 5CAD4ED6
E0635DAE 1DCCA0EB 448F3BD1 3A0CDB9 BE162CDF 3EF23175

MacData is

4B435F31 5F56424F 42425941 4C494345
010EBFAF C6E85E08 D24BFFFC C1A4511D B0E634BE EB1B6DEC
8C5939AE 44766201 AF620043 0BA97C8A C6A0E9F0 8B33CE7E
9FEEB5BA 4EE5E0D8 1510C242 95B8A08D 023500A4 A6EC300D
F9E257B0 372B5E7A BFEF0934 36719A77 887EBB0B 18CF8099
B9F4212B 6E30A141 9C18E029 D36863CC 9D448F4D BA4D2A0E
60711BE5 72915FBD 4FEF2695 01EBB34D D75721AB F8ADC9DB
ED17889C BB9765D9 0A7C60F2 CEF007BB 0F2B26E1 4881FD44
42E689D6 1CB2DD04 6EE30E3F FD20F9A4 5BBD6F41 3D583A2D
BF59924F D35C00F6 B632D194 C0388E22 D8437E55 8C552AE1
95ADFD15 3F92D749 08351B2F 8C4EDA94 EDB0916D 1B53C020
B5EECAED 1A5FC38A 233E4830 587BB2EE 3489B3B4 2A5A86A4

MacKey is

2D4A46A1 7099BAA8
330BC59D 4A1CF5AE 3A3075B4 C62BB26E 7FC98924 726D274C

Mtag is

1F9E2BC0 F3AE6550 53D3A462 B5EB9333
BDB8BCB3 1E193748 EAA73689 A1BD5649 F6612926 6F097365
74ACD563 3157F95C 6B9636FB 721A9BFB 08E91A8C 74CD324D

KeyData is

09646F44 08E6858C
43B42DAE D015EF26 1708D55E F24DAA7D 3EA3D1C4 A08CFD24
DB6000A5 B8A67DE7 46F3D3F4 FF348515 8FD3B691 55791DF4
6747D4DB BE17C4B5 58462E26 BE5ED35F E680E297 1422C3B0
1B17E167 FC437F84 869D8549 537B3338 50F0B78E 5CAD4ED6
E0635DAE 1DCCA0EB 448F3BD1 3A0CDB9 BE162CDF 3EF23175

Scheme Initiator, Key Confirmation Bilateral
Zs is

0138 A672B695 8BD784E5 D7FA8373 8AC68F9B
3423B483 F9BF539E 71141E45 DBFB7AFE D18B11C0 028B13F1
F860EF43 C480F4DA CDA20810 59D3978C 999D5D1A DE3454E4

Ze is

00CD EA89621C FA46B132 F9E4CFE2 261CDE2D
4368EB56 56634C7C C98C7A00 CDE54ED1 866A0DD3 E6126C9D
2F845DAF F82CEB1D A08F5D87 521BB0EB ECA77911 169C20CC

Z is

00CDEA89 621CFA46 B132F9E4
CFE2261C DE2D4368 EB565663 4C7CC98C 7A00CDE5 4ED1866A
0DD3E612 6C9D2F84 5DAFF82C EB1DA08F 5D87521B B0EBECA7
7911169C 20CC0138 A672B695 8BD784E5 D7FA8373 8AC68F9B
3423B483 F9BF539E 71141E45 DBFB7AFE D18B11C0 028B13F1
F860EF43 C480F4DA CDA20810 59D3978C 999D5D1A DE3454E4

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

2D4A46A1 7099BAA8 330BC59D 4A1CF5AE
3A3075B4 C62BB26E 7FC98924 726D274C 09646F44 08E6858C
43B42DAE D015EF26 1708D55E F24DAA7D 3EA3D1C4 A08CFD24
DB6000A5 B8A67DE7 46F3D3F4 FF348515 8FD3B691 55791DF4
6747D4DB BE17C4B5 58462E26 BE5ED35F E680E297 1422C3B0
1B17E167 FC437F84 869D8549 537B3338 50F0B78E 5CAD4ED6
E0635DAE 1DCCA0EB 448F3BD1 3A0CDB9 BE162CDF 3EF23175

U2V

MacData is

4B435F32 5F55414C 49434542 4F424259
01EBB34D D75721AB F8ADC9DB ED17889C BB9765D9 0A7C60F2
CEF007BB 0F2B26E1 4881FD44 42E689D6 1CB2DD04 6EE30E3F
FD20F9A4 5BBDF641 3D583A2D BF59924F D35C00F6 B632D194
C0388E22 D8437E55 8C552AE1 95ADFD15 3F92D749 08351B2F
8C4EDA94 EDB0916D 1B53C020 B5EECAED 1A5FC38A 233E4830
587BB2EE 3489B3B4 2A5A86A4 010EBFAF C6E85E08 D24BFFFC
C1A4511D B0E634BE EB1B6DEC 8C5939AE 44766201 AF620043
0BA97C8A C6A0E9F0 8B33CE7E 9FEEB5BA 4EE5E0D8 1510C242

95B8A08D 023500A4 A6EC300D F9E257B0 372B5E7A BFEF0934
36719A77 887EBB0B 18CF8099 B9F4212B 6E30A141 9C18E029
D36863CC 9D448F4D BA4D2A0E 60711BE5 72915FBD 4FEF2695

MacKey is

2D4A46A1 7099BAA8
330BC59D 4A1CF5AE 3A3075B4 C62BB26E 7FC98924 726D274C

Mtag is

332623B6 15C0AF2C EF5C1D66 70670B3E
6D01479C EF6041AD 617A5DA9 53E6211F 89E98E1A F3002302
817FAE27 6E92547F 79266D58 82B7732D 6B46A203 08445842

V2U

MacData is

4B435F32 5F56424F 42425941 4C494345
010EBFAF C6E85E08 D24BFFFC C1A4511D B0E634BE EB1B6DEC
8C5939AE 44766201 AF620043 0BA97C8A C6A0E9F0 8B33CE7E
9FEEB5BA 4EE5E0D8 1510C242 95B8A08D 023500A4 A6EC300D
F9E257B0 372B5E7A BFEF0934 36719A77 887EBB0B 18CF8099
B9F4212B 6E30A141 9C18E029 D36863CC 9D448F4D BA4D2A0E
60711BE5 72915FBD 4FEF2695 01EBB34D D75721AB F8ADC9DB
ED17889C BB9765D9 0A7C60F2 CEF007BB 0F2B26E1 4881FD44
42E689D6 1CB2DD04 6EE30E3F FD20F9A4 5BBD6F41 3D583A2D
BF59924F D35C00F6 B632D194 C0388E22 D8437E55 8C552AE1
95ADFD15 3F92D749 08351B2F 8C4EDA94 EDB0916D 1B53C020
B5EECAED 1A5FC38A 233E4830 587BB2EE 3489B3B4 2A5A86A4

MacKey is

2D4A46A1 7099BAA8
330BC59D 4A1CF5AE 3A3075B4 C62BB26E 7FC98924 726D274C

Mtag is

F752AFAE F5E2F786 008BA46F 9524516B
D4F80388 C35FB7A5 CEA8F38A EEDAED09 AABFC450 2EC99150
F53C2FC8 791FB613 FCE28F7E 97FC1C65 17CC8A4F 803209F9

KeyData is

09646F44 08E6858C

43B42DAE D015EF26 1708D55E F24DAA7D 3EA3D1C4 A08CFD24
DB6000A5 B8A67DE7 46F3D3F4 FF348515 8FD3B691 55791DF4
6747D4DB BE17C4B5 58462E26 BE5ED35F E680E297 1422C3B0
1B17E167 FC437F84 869D8549 537B3338 50F0B78E 5CAD4ED6
E0635DAE 1DCCA0EB 448F3BD1 3A0CDBB9 BE162CDF 3EF23175

FullMQV(P-521)

dsU is

017D 1527DCC7 C046E4D3 04600ED0 D3A625F6
AA46C475 14D92CB6 A6416C1B 8978B3E6 E9796830 6FFC49D0
0371CCBD 4B796AA3 6547A6ED 3E78BBDF F2CFF34C E4C57FC9

QsU_x is

00D0 C2D9A667 F85A3C27 0C838535 04616791
F3052858 3CF2D5CD D35D4E77 D440FE51 01DFC0E1 953983A9
C1D7C330 7E6213FB CEB3D113 460D7B45 BBACAE5D 54B68166

QsU_y is

01C8 A85F0367 B3B1F4DE 8A74021E 08E13EA5
65EF012E 647DD317 3B21DD6B B9987155 73063EBB 3152CAA7
91ABD47F D31FB528 799413F8 DFF76E28 64E9870A 262ECACB

dsV is

00A0 752E306C ECD87AB0 E4830DA1 44F8038C
E7B8C2B3 E5422ACF 9AAA6CCF 21818316 9A4CCA2A D577A64E
6D86DCBF F5C1727A 11FD1CB8 E3A53842 B84005FD A9AC7F36

QsV_x is

0128 C16B23A4 259C9FE4 257C1DA4 3C7735C4
3337929E 0FD86CC2 A778975B 67184CC2 825F6E66 7876D404
BBF03E04 1F8FAD2F CCC036CD 5448B64E 9BD7DF6F 537659BB

QsV_y is

0108 089A6431 FED52344 DD5859A0 E5432D16
9BEE36F5 3F857AED 08A69FE3 07B1C94B 8ABDCF65 0C4D1297
29D69FB7 7D1CC1CD 651C676B 309CE018 C9771EAB 9CA5A754

deU is

0113 F82DA825 735E3D97 276683B2 B74277BA
D27335EA 71664AF2 430CC4F3 3459B966 9EE78B3F FB9B8683
015D344D CBFEF6FB 9AF4C6C4 70BE2545 16CD3C1A 1FB47362

QeU_x is

01EB B34DD757 21ABF8AD C9DBED17 889CBB97
65D90A7C 60F2CEF0 07BB0F2B 26E14881 FD4442E6 89D61CB2
DD046EE3 0E3FFD20 F9A45BBB F6413D58 3A2DBF59 924FD35C

QeU_y is

00F6 B632D194 C0388E22 D8437E55 8C552AE1
95ADFD15 3F92D749 08351B2F 8C4EDA94 EDB0916D 1B53C020
B5EECAED 1A5FC38A 233E4830 587BB2EE 3489B3B4 2A5A86A4

deV is

00CE E3480D86 45A17D24 9F2776D2 8BAE6169
52D1791F DB4B70F7 C3378732 AA1B2292 8448BCD1 DC2496D4
35B01048 066EBE4F 72903C36 1B1A9DC1 193DC2C9 D0891B96

QeV_x is

010E BFAFC6E8 5E08D24B FFFCC1A4 511DB0E6
34BEEB1B 6DEC8C59 39AE4476 6201AF62 00430BA9 7C8AC6A0
E9F08B33 CE7E9FEE B5BA4EE5 E0D81510 C24295B8 A08D0235

QeV_y is

00A4 A6EC300D F9E257B0 372B5E7A BFEF0934
36719A77 887EBB0B 18CF8099 B9F4212B 6E30A141 9C18E029
D36863CC 9D448F4D BA4D2A0E 60711BE5 72915FBD 4FEF2695

no Key Confirmation

Z is

01BE 3D4F8058 EF18D790 2A263CEF 57325EAE
C9B9D6D6 411800FA 0518A173 DA7AEC8E 984B2AFA 782C2506
639AFB54 092D56E1 2C02AE2B 943B22C3 8763DBC7 DE3BDFC1

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

E7946061 588EA80B
9FE8FF31 515B007B 12EE2988 633DE0ED 71EBCD33 B605F8C2
EAD28CBC D07BAA3D FFCC7BA3 51860A90 D8E28699 BCF1866D
46CBC313 01CBBB2B C44125FC B6B5B974 E59B2010 90898AC1
511261EB 392EBD23 53B7A3EA 65F1CF67 54BB5519 C190C47D
8AE32B51 78293EBA 66C7E633 BACEF480 9A349F0C 1663EADC

KeyData is

E7946061 588EA80B
9FE8FF31 515B007B 12EE2988 633DE0ED 71EBCD33 B605F8C2
EAD28CBC D07BAA3D FFCC7BA3 51860A90 D8E28699 BCF1866D
46CBC313 01CBBB2B C44125FC B6B5B974 E59B2010 90898AC1
511261EB 392EBD23 53B7A3EA 65F1CF67 54BB5519 C190C47D
8AE32B51 78293EBA 66C7E633 BACEF480 9A349F0C 1663EADC

Scheme Initiator, Key Confirmation Provider: U to V

Z is

01BE 3D4F8058 EF18D790 2A263CEF 57325EAE
C9B9D6D6 411800FA 0518A173 DA7AEC8E 984B2AFA 782C2506
639AFB54 092D56E1 2C02AE2B 943B22C3 8763DBC7 DE3BDFC1

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

E7946061 588EA80B 9FE8FF31 515B007B
12EE2988 633DE0ED 71EBCD33 B605F8C2 EAD28CBC D07BAA3D
FFCC7BA3 51860A90 D8E28699 BCF1866D 46CBC313 01CBBB2B
C44125FC B6B5B974 E59B2010 90898AC1 511261EB 392EBD23
53B7A3EA 65F1CF67 54BB5519 C190C47D 8AE32B51 78293EBA
66C7E633 BACEF480 9A349F0C 1663EADC 73A64A8A EF283A37
E0CA305E 0A9124D7 221F5D67 3DDB7B12 CB0A8516 9BFD17C9

MacData is

4B435F31 5F55414C 49434542 4F424259
01EBB34D D75721AB F8ADC9DB ED17889C BB9765D9 0A7C60F2
CEF007BB 0F2B26E1 4881FD44 42E689D6 1CB2DD04 6EE30E3F
FD20F9A4 5BBDF641 3D583A2D BF59924F D35C00F6 B632D194
C0388E22 D8437E55 8C552AE1 95ADFD15 3F92D749 08351B2F
8C4EDA94 EDB0916D 1B53C020 B5EECAED 1A5FC38A 233E4830
587BB2EE 3489B3B4 2A5A86A4 010EBFAF C6E85E08 D24BFFFC
C1A4511D B0E634BE EB1B6DEC 8C5939AE 44766201 AF620043
0BA97C8A C6A0E9F0 8B33CE7E 9FEEB5BA 4EE5E0D8 1510C242
95B8A08D 023500A4 A6EC300D F9E257B0 372B5E7A BFEF0934
36719A77 887EBB0B 18CF8099 B9F4212B 6E30A141 9C18E029
D36863CC 9D448F4D BA4D2A0E 60711BE5 72915FBD 4FEF2695

MacKey is

E7946061 588EA80B
9FE8FF31 515B007B 12EE2988 633DE0ED 71EBCD33 B605F8C2

Mtag is

8AA7CAEA EC472789 1C57399C 291BC2E1
538A85DC EC4BC42E 9C48B37C 3F42B4E5 2FB2F152 A655D1A7
33F3D43D A91EA799 952B197F DF6E8DF8 6CD1FE47 09E1AE15

KeyData is

EAD28CBC D07BAA3D
FFCC7BA3 51860A90 D8E28699 BCF1866D 46CBC313 01CBBB2B
C44125FC B6B5B974 E59B2010 90898AC1 511261EB 392EBD23
53B7A3EA 65F1CF67 54BB5519 C190C47D 8AE32B51 78293EBA
66C7E633 BACEF480 9A349F0C 1663EADC 73A64A8A EF283A37
E0CA305E 0A9124D7 221F5D67 3DDB7B12 CB0A8516 9BFD17C9

Scheme Responder, Key Confirmation Provider: V to U
Z is

01BE 3D4F8058 EF18D790 2A263CEF 57325EAE
C9B9D6D6 411800FA 0518A173 DA7AEC8E 984B2AFA 782C2506
639AFB54 092D56E1 2C02AE2B 943B22C3 8763DBC7 DE3BDFC1

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

E7946061 588EA80B 9FE8FF31 515B007B
12EE2988 633DE0ED 71EBCD33 B605F8C2 EAD28CBC D07BAA3D
FFCC7BA3 51860A90 D8E28699 BCF1866D 46CBC313 01CBBB2B
C44125FC B6B5B974 E59B2010 90898AC1 511261EB 392EBD23
53B7A3EA 65F1CF67 54BB5519 C190C47D 8AE32B51 78293EBA
66C7E633 BACEF480 9A349F0C 1663EADC 73A64A8A EF283A37
E0CA305E 0A9124D7 221F5D67 3DDB7B12 CB0A8516 9BFD17C9

MacData is

4B435F31 5F56424F 42425941 4C494345
010EBFAF C6E85E08 D24BFFFC C1A4511D B0E634BE EB1B6DEC
8C5939AE 44766201 AF620043 0BA97C8A C6A0E9F0 8B33CE7E
9FEEB5BA 4EE5E0D8 1510C242 95B8A08D 023500A4 A6EC300D
F9E257B0 372B5E7A BFEF0934 36719A77 887EBB0B 18CF8099
B9F4212B 6E30A141 9C18E029 D36863CC 9D448F4D BA4D2A0E
60711BE5 72915FBD 4FEF2695 01EBB34D D75721AB F8ADC9DB
ED17889C BB9765D9 0A7C60F2 CEF007BB 0F2B26E1 4881FD44
42E689D6 1CB2DD04 6EE30E3F FD20F9A4 5BBDF641 3D583A2D
BF59924F D35C00F6 B632D194 C0388E22 D8437E55 8C552AE1
95ADFD15 3F92D749 08351B2F 8C4EDA94 EDB0916D 1B53C020
B5EECAED 1A5FC38A 233E4830 587BB2EE 3489B3B4 2A5A86A4

MacKey is

E7946061 588EA80B
9FE8FF31 515B007B 12EE2988 633DE0ED 71EBCD33 B605F8C2

Mtag is

94CDE460 990F798F 070120D1 1E84893F
75A6E8DD 3BF7ED88 A37BA3DF AEBEBC2C 63E6A3FC BA69C41A
F8F0B6E8 342B9578 E4475B71 DBC92F2E 47BCFD6A C397DF05

KeyData is

EAD28CBC D07BAA3D
FFCC7BA3 51860A90 D8E28699 BCF1866D 46CBC313 01CBBB2B
C44125FC B6B5B974 E59B2010 90898AC1 511261EB 392EBD23
53B7A3EA 65F1CF67 54BB5519 C190C47D 8AE32B51 78293EBA
66C7E633 BACEF480 9A349F0C 1663EADC 73A64A8A EF283A37

E0CA305E 0A9124D7 221F5D67 3DDB7B12 CB0A8516 9BFD17C9

Scheme Initiator, Key Confirmation Bilateral
Z is

01BE 3D4F8058 EF18D790 2A263CEF 57325EAE
C9B9D6D6 411800FA 0518A173 DA7AEC8E 984B2AFA 782C2506
639AFB54 092D56E1 2C02AE2B 943B22C3 8763DBC7 DE3BDFC1

OtherInfo is

12345678 9ABCDEFO 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

E7946061 588EA80B 9FE8FF31 515B007B
12EE2988 633DE0ED 71EBCD33 B605F8C2 EAD28CBC D07BAA3D
FFCC7BA3 51860A90 D8E28699 BCF1866D 46CBC313 01CBBB2B
C44125FC B6B5B974 E59B2010 90898AC1 511261EB 392EBD23
53B7A3EA 65F1CF67 54BB5519 C190C47D 8AE32B51 78293EBA
66C7E633 BACEF480 9A349F0C 1663EADC 73A64A8A EF283A37
E0CA305E 0A9124D7 221F5D67 3DDB7B12 CB0A8516 9BFD17C9

U2V

MacData is

4B435F32 5F55414C 49434542 4F424259
01EBB34D D75721AB F8ADC9DB ED17889C BB9765D9 0A7C60F2
CEF007BB 0F2B26E1 4881FD44 42E689D6 1CB2DD04 6EE30E3F
FD20F9A4 5BBDF641 3D583A2D BF59924F D35C00F6 B632D194
C0388E22 D8437E55 8C552AE1 95ADFD15 3F92D749 08351B2F
8C4EDA94 EDB0916D 1B53C020 B5EECAED 1A5FC38A 233E4830
587BB2EE 3489B3B4 2A5A86A4 010EBFAF C6E85E08 D24BFFFC
C1A4511D B0E634BE EB1B6DEC 8C5939AE 44766201 AF620043
0BA97C8A C6A0E9F0 8B33CE7E 9FEEB5BA 4EE5E0D8 1510C242
95B8A08D 023500A4 A6EC300D F9E257B0 372B5E7A BFEF0934
36719A77 887EBB0B 18CF8099 B9F4212B 6E30A141 9C18E029
D36863CC 9D448F4D BA4D2A0E 60711BE5 72915FBD 4FEF2695

MacKey is

E7946061 588EA80B
9FE8FF31 515B007B 12EE2988 633DE0ED 71EBCD33 B605F8C2

Mtag is

929585B7 A0144071 35759347 4CA4B4DC
9A56DD61 4F15400C EB305EFE 84C0BA0B 2D2BB87C AF153EBC
7105AB31 59E7B7AD 1FA69669 7C137B56 2AD8C314 5E3B2730

V2U

MacData is

4B435F32 5F56424F 42425941 4C494345
010EBFAF C6E85E08 D24BFFFC C1A4511D B0E634BE EB1B6DEC
8C5939AE 44766201 AF620043 0BA97C8A C6A0E9F0 8B33CE7E
9FEEB5BA 4EE5E0D8 1510C242 95B8A08D 023500A4 A6EC300D
F9E257B0 372B5E7A BFEF0934 36719A77 887EBB0B 18CF8099
B9F4212B 6E30A141 9C18E029 D36863CC 9D448F4D BA4D2A0E
60711BE5 72915FBD 4FEF2695 01EBB34D D75721AB F8ADC9DB
ED17889C BB9765D9 0A7C60F2 CEF007BB 0F2B26E1 4881FD44
42E689D6 1CB2DD04 6EE30E3F FD20F9A4 5BBDF641 3D583A2D
BF59924F D35C00F6 B632D194 C0388E22 D8437E55 8C552AE1
95ADFD15 3F92D749 08351B2F 8C4EDA94 EDB0916D 1B53C020
B5EECAED 1A5FC38A 233E4830 587BB2EE 3489B3B4 2A5A86A4

MacKey is

E7946061 588EA80B
9FE8FF31 515B007B 12EE2988 633DE0ED 71EBCD33 B605F8C2

Mtag is

CC624E00 604233DA A807A33C 0662C7D4
91317C12 F079851F 3805F602 11EEAFB5 E986E2A2 DD422259
B7A9E32C 68C8AC9E 1BA7F641 04E70399 BAE6FA39 4F4E5896

KeyData is

EAD28CBC D07BAA3D
FFCC7BA3 51860A90 D8E28699 BCF1866D 46CBC313 01CBBB2B
C44125FC B6B5B974 E59B2010 90898AC1 511261EB 392EBD23
53B7A3EA 65F1CF67 54BB5519 C190C47D 8AE32B51 78293EBA
66C7E633 BACEF480 9A349F0C 1663EADC 73A64A8A EF283A37
E0CA305E 0A9124D7 221F5D67 3DDB7B12 CB0A8516 9BFD17C9

EphemeralUnifiedCDH(P-521)

deU is

0113 F82DA825 735E3D97 276683B2 B74277BA
D27335EA 71664AF2 430CC4F3 3459B966 9EE78B3F FB9B8683
015D344D CBFEF6FB 9AF4C6C4 70BE2545 16CD3C1A 1FB47362

QeU_x is

01EB B34DD757 21ABF8AD C9DBED17 889CBB97
65D90A7C 60F2CEF0 07BB0F2B 26E14881 FD4442E6 89D61CB2
DD046EE3 0E3FFD20 F9A45BBD F6413D58 3A2DBF59 924FD35C

QeU_y is

00F6 B632D194 C0388E22 D8437E55 8C552AE1
95ADFD15 3F92D749 08351B2F 8C4EDA94 EDB0916D 1B53C020
B5EECAED 1A5FC38A 233E4830 587BB2EE 3489B3B4 2A5A86A4

deV is

00CE E3480D86 45A17D24 9F2776D2 8BAE6169
52D1791F DB4B70F7 C3378732 AA1B2292 8448BCD1 DC2496D4
35B01048 066EBE4F 72903C36 1B1A9DC1 193DC2C9 D0891B96

QeV_x is

010E BFAFC6E8 5E08D24B FFFCC1A4 511DB0E6
34BEEB1B 6DEC8C59 39AE4476 6201AF62 00430BA9 7C8AC6A0
E9F08B33 CE7E9FEE B5BA4EE5 E0D81510 C24295B8 A08D0235

QeV_y is

00A4 A6EC300D F9E257B0 372B5E7A BFEF0934
36719A77 887EBB0B 18CF8099 B9F4212B 6E30A141 9C18E029
D36863CC 9D448F4D BA4D2A0E 60711BE5 72915FBD 4FEF2695

no Key Confirmation

Z is

00CD EA89621C FA46B132 F9E4CFE2 261CDE2D
4368EB56 56634C7C C98C7A00 CDE54ED1 866A0DD3 E6126C9D
2F845DAF F82CEB1D A08F5D87 521BB0EB ECA77911 169C20CC

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

80D9CC99 82B785B2 CCD78A16 20B41B83 3B78F149 FE823A23
CE7B2712 7E8E07A1 F4CC7D1C E5D8849D FC82B411 BACBC476
B2E0C1A8 9025A16E 45956081 87DC2F82 CCC4C5E3 FC3504D8
5BE8497A 2B240AAD 7A5ACA6C 42691F08 9F9D072A 0A66CF43
BBEB5F84 13D923C9 F77515E5 8E5989F3 7D09E6D2 922C2B57

KeyData is

80D9CC99 82B785B2 CCD78A16 20B41B83 3B78F149 FE823A23
CE7B2712 7E8E07A1 F4CC7D1C E5D8849D FC82B411 BACBC476
B2E0C1A8 9025A16E 45956081 87DC2F82 CCC4C5E3 FC3504D8
5BE8497A 2B240AAD 7A5ACA6C 42691F08 9F9D072A 0A66CF43
BBEB5F84 13D923C9 F77515E5 8E5989F3 7D09E6D2 922C2B57

OnePassUnifiedCDH(P-521)

dsU is

017D 1527DCC7 C046E4D3 04600ED0 D3A625F6
AA46C475 14D92CB6 A6416C1B 8978B3E6 E9796830 6FFC49D0
0371CCBD 4B796AA3 6547A6ED 3E78BBDF F2CFF34C E4C57FC9

QsU_x is

00D0 C2D9A667 F85A3C27 0C838535 04616791
F3052858 3CF2D5CD D35D4E77 D440FE51 01DFC0E1 953983A9
C1D7C330 7E6213FB CEB3D113 460D7B45 BBACAE5D 54B68166

QsU_y is

01C8 A85F0367 B3B1F4DE 8A74021E 08E13EA5
65EF012E 647DD317 3B21DD6B B9987155 73063EBB 3152CAA7

91ABD47F D31FB528 799413F8 DFF76E28 64E9870A 262ECACB

dsV is

00A0 752E306C ECD87AB0 E4830DA1 44F8038C
E7B8C2B3 E5422ACF 9AAA6CCF 21818316 9A4CCA2A D577A64E
6D86DCBF F5C1727A 11FD1CB8 E3A53842 B84005FD A9AC7F36

QsV_x is

0128 C16B23A4 259C9FE4 257C1DA4 3C7735C4
3337929E 0FD86CC2 A778975B 67184CC2 825F6E66 7876D404
BBF03E04 1F8FAD2F CCC036CD 5448B64E 9BD7DF6F 537659BB

QsV_y is

0108 089A6431 FED52344 DD5859A0 E5432D16
9BEE36F5 3F857AED 08A69FE3 07B1C94B 8ABDCF65 0C4D1297
29D69FB7 7D1CC1CD 651C676B 309CE018 C9771EAB 9CA5A754

deU is

0113 F82DA825 735E3D97 276683B2 B74277BA
D27335EA 71664AF2 430CC4F3 3459B966 9EE78B3F FB9B8683
015D344D CBFEF6FB 9AF4C6C4 70BE2545 16CD3C1A 1FB47362

QeU_x is

01EB B34DD757 21ABF8AD C9DBED17 889CBB97
65D90A7C 60F2CEF0 07BB0F2B 26E14881 FD4442E6 89D61CB2
DD046EE3 0E3FFD20 F9A45BBD F6413D58 3A2DBF59 924FD35C

QeU_y is

00F6 B632D194 C0388E22 D8437E55 8C552AE1
95ADFD15 3F92D749 08351B2F 8C4EDA94 EDB0916D 1B53C020
B5EECAED 1A5FC38A 233E4830 587BB2EE 3489B3B4 2A5A86A4

no Key Confirmation

Zs is

0138 A672B695 8BD784E5 D7FA8373 8AC68F9B
3423B483 F9BF539E 71141E45 DBFB7AFE D18B11C0 028B13F1

F860EF43 C480F4DA CDA20810 59D3978C 999D5D1A DE3454E4

Ze is

0104 F83D9416 E8BB0FEB CBAC67FE CA3F23A1
54E9ECE9 CE152A38 1308754A E68B575A 67D0BA3E 7FAB218C
74C58BEF DB2E494D 510158A2 5EF077C1 D1C89E58 5F1C44F7

Z is

0104F83D 9416E8BB 0FEB CBAC
67FECA3F 23A154E9 ECE9CE15 2A381308 754AE68B 575A67D0
BA3E7FAB 218C74C5 8BEFDB2E 494D5101 58A25EF0 77C1D1C8
9E585F1C 44F70138 A672B695 8BD784E5 D7FA8373 8AC68F9B
3423B483 F9BF539E 71141E45 DBFB7AFE D18B11C0 028B13F1
F860EF43 C480F4DA CDA20810 59D3978C 999D5D1A DE3454E4

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

A649B1A5 7457DCB4
15134A13 B4D9973D 13E48BA9 3B22A7A1 ED9F09EA BB493978
A5E301CF 7FCF1D12 37E26111 8CBED7AD E92EF2ED 856A6309
3182B539 40BE7572 E914505F A51461C4 F4B889C0 8BFB0442
0C994ED1 05EB68B9 8EAF6E42 41E84F8F 3A4C8BF8 A62B694F
05FC5338 65A7B6AB EEC2D8A2 25019C14 6B17A14E AB572BD0

KeyData is

A649B1A5 7457DCB4
15134A13 B4D9973D 13E48BA9 3B22A7A1 ED9F09EA BB493978
A5E301CF 7FCF1D12 37E26111 8CBED7AD E92EF2ED 856A6309
3182B539 40BE7572 E914505F A51461C4 F4B889C0 8BFB0442
0C994ED1 05EB68B9 8EAF6E42 41E84F8F 3A4C8BF8 A62B694F
05FC5338 65A7B6AB EEC2D8A2 25019C14 6B17A14E AB572BD0

Scheme Initiator, Key Confirmation Provider: U to V

NonceV is

0020 905F7F3A 0298275E 33482000 1D90F0B2

F19737D1 F8452AC5 54BEEB7A ECB9A566 5E43DF31 3C361B1A
9DC118D1 570D001F 3369934C 33DC782E D003C8FA 6F04553D

Zs is

0138 A672B695 8BD784E5 D7FA8373 8AC68F9B
3423B483 F9BF539E 71141E45 DBFB7AFE D18B11C0 028B13F1
F860EF43 C480F4DA CDA20810 59D3978C 999D5D1A DE3454E4

Ze is

0104 F83D9416 E8BB0FEB CBAC67FE CA3F23A1
54E9ECE9 CE152A38 1308754A E68B575A 67D0BA3E 7FAB218C
74C58BEF DB2E494D 510158A2 5EF077C1 D1C89E58 5F1C44F7

Z is

0104F83D 9416E8BB 0FEBCBAC
67FECA3F 23A154E9 ECE9CE15 2A381308 754AE68B 575A67D0
BA3E7FAB 218C74C5 8BEFDB2E 494D5101 58A25EF0 77C1D1C8
9E585F1C 44F70138 A672B695 8BD784E5 D7FA8373 8AC68F9B
3423B483 F9BF539E 71141E45 DBFB7AFE D18B11C0 028B13F1
F860EF43 C480F4DA CDA20810 59D3978C 999D5D1A DE3454E4

OtherInfo is

12345678 9ABCDEFO 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

A649B1A5 7457DCB4 15134A13 B4D9973D
13E48BA9 3B22A7A1 ED9F09EA BB493978 A5E301CF 7FCF1D12
37E26111 8CBED7AD E92EF2ED 856A6309 3182B539 40BE7572
E914505F A51461C4 F4B889C0 8BFB0442 0C994ED1 05EB68B9
8EAF6E42 41E84F8F 3A4C8BF8 A62B694F 05FC5338 65A7B6AB
EEC2D8A2 25019C14 6B17A14E AB572BD0 B3A85D44 9099783D
4F192877 B712A0BD 12B53459 A8342F13 4D5C5717 AA34ECC5

MacData is

4B43 5F315F55 414C4943 45424F42 425901EB B34DD757
21ABF8AD C9DBED17 889CBB97 65D90A7C 60F2CEF0 07BB0F2B
26E14881 FD4442E6 89D61CB2 DD046EE3 0E3FFD20 F9A45BBD
F6413D58 3A2DBF59 924FD35C 00F6B632 D194C038 8E22D843
7E558C55 2AE195AD FD153F92 D7490835 1B2F8C4E DA94EDB0
916D1B53 C020B5EE CAED1A5F C38A233E 4830587B B2EE3489

B3B42A5A 86A40020 905F7F3A 0298275E 33482000 1D90F0B2
F19737D1 F8452AC5 54BEEB7A ECB9A566 5E43DF31 3C361B1A
9DC118D1 570D001F 3369934C 33DC782E D003C8FA 6F04553D

MacKey is

A649B1A5 7457DCB4
15134A13 B4D9973D 13E48BA9 3B22A7A1 ED9F09EA BB493978

Mtag is

BA11042B 74ED409A 83E73B0C A1C64A58
E07B31BA 35B86FEF 8B7AD787 F683F557 77EF0E35 04BEB56E
0FEB75BC 824428A6 775E5BB0 D29B0CC2 1BFC3B72 1D10DC55

KeyData is

A5E301CF 7FCF1D12
37E26111 8CBED7AD E92EF2ED 856A6309 3182B539 40BE7572
E914505F A51461C4 F4B889C0 8BFB0442 0C994ED1 05EB68B9
8EAF6E42 41E84F8F 3A4C8BF8 A62B694F 05FC5338 65A7B6AB
EEC2D8A2 25019C14 6B17A14E AB572BD0 B3A85D44 9099783D
4F192877 B712A0BD 12B53459 A8342F13 4D5C5717 AA34ECC5

Scheme Responder, Key Confirmation Provider: V to U
NonceU is

0020 905F7F3A 0298275E 33482000 1D90F0B2
F19737D1 F8452AC5 54BEEB7A ECB9A566 5E43DF31 3C361B1A
9DC118D1 570D001F 3369934C 33DC782E D003C8FA 6F04553D

Zs is

0138 A672B695 8BD784E5 D7FA8373 8AC68F9B
3423B483 F9BF539E 71141E45 DBFB7AFE D18B11C0 028B13F1
F860EF43 C480F4DA CDA20810 59D3978C 999D5D1A DE3454E4

Ze is

0104 F83D9416 E8BB0FEB CBAC67FE CA3F23A1
54E9ECE9 CE152A38 1308754A E68B575A 67D0BA3E 7FAB218C
74C58BEF DB2E494D 510158A2 5EF077C1 D1C89E58 5F1C44F7

Z is

0104F83D 9416E8BB 0FEBCBAC
67FECA3F 23A154E9 ECE9CE15 2A381308 754AE68B 575A67D0
BA3E7FAB 218C74C5 8BEFDB2E 494D5101 58A25EF0 77C1D1C8
9E585F1C 44F70138 A672B695 8BD784E5 D7FA8373 8AC68F9B
3423B483 F9BF539E 71141E45 DBFB7AFE D18B11C0 028B13F1
F860EF43 C480F4DA CDA20810 59D3978C 999D5D1A DE3454E4

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

A649B1A5 7457DCB4 15134A13 B4D9973D
13E48BA9 3B22A7A1 ED9F09EA BB493978 A5E301CF 7FCF1D12
37E26111 8CBED7AD E92EF2ED 856A6309 3182B539 40BE7572
E914505F A51461C4 F4B889C0 8BFB0442 0C994ED1 05EB68B9
8EAF6E42 41E84F8F 3A4C8BF8 A62B694F 05FC5338 65A7B6AB
EEC2D8A2 25019C14 6B17A14E AB572BD0 B3A85D44 9099783D
4F192877 B712A0BD 12B53459 A8342F13 4D5C5717 AA34ECC5

MacData is

4B435F31
5F56424F 42425941 4C494345 01EBB34D D75721AB F8ADC9DB
ED17889C BB9765D9 0A7C60F2 CEF007BB 0F2B26E1 4881FD44
42E689D6 1CB2DD04 6EE30E3F FD20F9A4 5BBDF641 3D583A2D
BF59924F D35C00F6 B632D194 C0388E22 D8437E55 8C552AE1
95ADFD15 3F92D749 08351B2F 8C4EDA94 EDB0916D 1B53C020
B5EECAED 1A5FC38A 233E4830 587BB2EE 3489B3B4 2A5A86A4

MacKey is

A649B1A5 7457DCB4
15134A13 B4D9973D 13E48BA9 3B22A7A1 ED9F09EA BB493978

Mtag is

CB211DDE F1CADA90 2EC21C58 165E89AC
D51FF0FB 8D42B87D 6BF20733 155C9F5A 1C48D948 0DDC1A81
D53E3E1D 13EE9DFE BB2745C5 E2F42800 29309F5F 73C1DFD3

KeyData is

A5E301CF 7FCF1D12
37E26111 8CBED7AD E92EF2ED 856A6309 3182B539 40BE7572
E914505F A51461C4 F4B889C0 8BFB0442 0C994ED1 05EB68B9
8EAF6E42 41E84F8F 3A4C8BF8 A62B694F 05FC5338 65A7B6AB
EEC2D8A2 25019C14 6B17A14E AB572BD0 B3A85D44 9099783D
4F192877 B712A0BD 12B53459 A8342F13 4D5C5717 AA34ECC5

Scheme Initiator, Key Confirmation Bilateral
NonceV is

0020 905F7F3A 0298275E 33482000 1D90F0B2
F19737D1 F8452AC5 54BEEB7A ECB9A566 5E43DF31 3C361B1A
9DC118D1 570D001F 3369934C 33DC782E D003C8FA 6F04553D

Zs is

0138 A672B695 8BD784E5 D7FA8373 8AC68F9B
3423B483 F9BF539E 71141E45 DBFB7AFE D18B11C0 028B13F1
F860EF43 C480F4DA CDA20810 59D3978C 999D5D1A DE3454E4

Ze is

0104 F83D9416 E8BB0FEB CBAC67FE CA3F23A1
54E9ECE9 CE152A38 1308754A E68B575A 67D0BA3E 7FAB218C
74C58BEF DB2E494D 510158A2 5EF077C1 D1C89E58 5F1C44F7

Z is

0104F83D 9416E8BB 0FEBBCBAC
67FECA3F 23A154E9 ECE9CE15 2A381308 754AE68B 575A67D0
BA3E7FAB 218C74C5 8BEFDB2E 494D5101 58A25EF0 77C1D1C8
9E585F1C 44F70138 A672B695 8BD784E5 D7FA8373 8AC68F9B
3423B483 F9BF539E 71141E45 DBFB7AFE D18B11C0 028B13F1
F860EF43 C480F4DA CDA20810 59D3978C 999D5D1A DE3454E4

OtherInfo is

12345678 9ABCDEFO 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

A649B1A5 7457DCB4 15134A13 B4D9973D
13E48BA9 3B22A7A1 ED9F09EA BB493978 A5E301CF 7FCF1D12

37E26111 8CBED7AD E92EF2ED 856A6309 3182B539 40BE7572
E914505F A51461C4 F4B889C0 8BFB0442 0C994ED1 05EB68B9
8EAF6E42 41E84F8F 3A4C8BF8 A62B694F 05FC5338 65A7B6AB
EEC2D8A2 25019C14 6B17A14E AB572BD0 B3A85D44 9099783D
4F192877 B712A0BD 12B53459 A8342F13 4D5C5717 AA34ECC5

U2V

MacData is

4B43 5F325F55 414C4943 45424F42 425901EB B34DD757
21ABF8AD C9DBED17 889CBB97 65D90A7C 60F2CEF0 07BB0F2B
26E14881 FD4442E6 89D61CB2 DD046EE3 0E3FFD20 F9A45BBB
F6413D58 3A2DBF59 924FD35C 00F6B632 D194C038 8E22D843
7E558C55 2AE195AD FD153F92 D7490835 1B2F8C4E DA94EDB0
916D1B53 C020B5EE CAED1A5F C38A233E 4830587B B2EE3489
B3B42A5A 86A40020 905F7F3A 0298275E 33482000 1D90F0B2
F19737D1 F8452AC5 54BEEB7A ECB9A566 5E43DF31 3C361B1A
9DC118D1 570D001F 3369934C 33DC782E D003C8FA 6F04553D

MacKey is

A649B1A5 7457DCB4
15134A13 B4D9973D 13E48BA9 3B22A7A1 ED9F09EA BB493978

Mtag is

8D8FBD76 2F350C8D B1D5D6E9 3E259DAF
69679568 275C55A7 E58076A7 2EF06D4C 02005E1E 4647B9E6
716A9F4E CABCE1E0 E91D1E2B 57D05DD4 132DB133 4945112C

V2U

MacData is

4B43 5F325F56 424F4242 59414C49 43450020 905F7F3A
0298275E 33482000 1D90F0B2 F19737D1 F8452AC5 54BEEB7A
ECB9A566 5E43DF31 3C361B1A 9DC118D1 570D001F 3369934C
33DC782E D003C8FA 6F04553D 01EBB34D D75721AB F8ADC9DB
ED17889C BB9765D9 0A7C60F2 CEF007BB 0F2B26E1 4881FD44
42E689D6 1CB2DD04 6EE30E3F FD20F9A4 5BBDF641 3D583A2D
BF59924F D35C00F6 B632D194 C0388E22 D8437E55 8C552AE1
95ADFD15 3F92D749 08351B2F 8C4EDA94 EDB0916D 1B53C020
B5EECAED 1A5FC38A 233E4830 587BB2EE 3489B3B4 2A5A86A4

MacKey is

A649B1A5 7457DCB4
15134A13 B4D9973D 13E48BA9 3B22A7A1 ED9F09EA BB493978

Mtag is

6713A8C4 B3567D00 CD75FF1A 6E053049
F5455FD0 B2BAA262 9135CD12 B8D79A01 B2C56CCA D66C0AC0
75D65028 48D20C2D DC65FB53 4DFD29F7 504CC145 1A17B67F

KeyData is

A5E301CF 7FCF1D12
37E26111 8CBED7AD E92EF2ED 856A6309 3182B539 40BE7572
E914505F A51461C4 F4B889C0 8BFB0442 0C994ED1 05EB68B9
8EAF6E42 41E84F8F 3A4C8BF8 A62B694F 05FC5338 65A7B6AB
EEC2D8A2 25019C14 6B17A14E AB572BD0 B3A85D44 9099783D
4F192877 B712A0BD 12B53459 A8342F13 4D5C5717 AA34ECC5

OnePassMQV(P-521)

dsU is

017D 1527DCC7 C046E4D3 04600ED0 D3A625F6
AA46C475 14D92CB6 A6416C1B 8978B3E6 E9796830 6FFC49D0
0371CCBD 4B796AA3 6547A6ED 3E78BBDF F2CFF34C E4C57FC9

QsU_x is

00D0 C2D9A667 F85A3C27 0C838535 04616791
F3052858 3CF2D5CD D35D4E77 D440FE51 01DFC0E1 953983A9
C1D7C330 7E6213FB CEB3D113 460D7B45 BBACAE5D 54B68166

QsU_y is

01C8 A85F0367 B3B1F4DE 8A74021E 08E13EA5
65EF012E 647DD317 3B21DD6B B9987155 73063EBB 3152CAA7
91ABD47F D31FB528 799413F8 DFF76E28 64E9870A 262ECACB

dsV is

00A0 752E306C ECD87AB0 E4830DA1 44F8038C
E7B8C2B3 E5422ACF 9AAA6CCF 21818316 9A4CCA2A D577A64E
6D86DCBF F5C1727A 11FD1CB8 E3A53842 B84005FD A9AC7F36

QsV_x is

0128 C16B23A4 259C9FE4 257C1DA4 3C7735C4
3337929E 0FD86CC2 A778975B 67184CC2 825F6E66 7876D404
BBF03E04 1F8FAD2F CCC036CD 5448B64E 9BD7DF6F 537659BB

QsV_y is

0108 089A6431 FED52344 DD5859A0 E5432D16
9BEE36F5 3F857AED 08A69FE3 07B1C94B 8ABDCF65 0C4D1297
29D69FB7 7D1CC1CD 651C676B 309CE018 C9771EAB 9CA5A754

deU is

0113 F82DA825 735E3D97 276683B2 B74277BA
D27335EA 71664AF2 430CC4F3 3459B966 9EE78B3F FB9B8683
015D344D CBFEF6FB 9AF4C6C4 70BE2545 16CD3C1A 1FB47362

QeU_x is

01EB B34DD757 21ABF8AD C9DBED17 889CBB97
65D90A7C 60F2CEF0 07BB0F2B 26E14881 FD4442E6 89D61CB2
DD046EE3 0E3FFD20 F9A45BBD F6413D58 3A2DBF59 924FD35C

QeU_y is

00F6 B632D194 C0388E22 D8437E55 8C552AE1
95ADFD15 3F92D749 08351B2F 8C4EDA94 EDB0916D 1B53C020
B5EECAED 1A5FC38A 233E4830 587BB2EE 3489B3B4 2A5A86A4

no Key Confirmation

Z is

0142 29035D7F 7F1F6331 0B786136 5902C246
ED7ABF91 F13A5D38 12588D67 AECF74D5 4DA191F8 A2938F53
71772870 853C9228 85875BBC 8A5103AB ED01D10C E2B9F381

OtherInfo is

12345678 9ABCDEFO 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

```
3F753BE6 F4789EF7
118B0A21 9B14B011 484791A0 1A0D32D3 0585F595 55B61063
68FBF512 FE36483B 8EBF4945 BBE2D2D9 278D9BBE CCF18F26
A0CE02A6 8DBB57E7 749E0542 F225E2AC 1A1BC554 742B1810
6A3E4508 C757F13C B86D2DD9 845357C2 AB460A67 A2652DBC
FB409A2A C0E8F29A 41BAAB96 773216B6 A0127A56 69FA8577
```

KeyData is

```
3F753BE6 F4789EF7
118B0A21 9B14B011 484791A0 1A0D32D3 0585F595 55B61063
68FBF512 FE36483B 8EBF4945 BBE2D2D9 278D9BBE CCF18F26
A0CE02A6 8DBB57E7 749E0542 F225E2AC 1A1BC554 742B1810
6A3E4508 C757F13C B86D2DD9 845357C2 AB460A67 A2652DBC
FB409A2A C0E8F29A 41BAAB96 773216B6 A0127A56 69FA8577
```

Scheme Initiator, Key Confirmation Provider: U to V

NonceV is

```
0020 905F7F3A 0298275E 33482000 1D90F0B2
F19737D1 F8452AC5 54BEEB7A ECB9A566 5E43DF31 3C361B1A
9DC118D1 570D001F 3369934C 33DC782E D003C8FA 6F04553D
```

Z is

```
0142 29035D7F 7F1F6331 0B786136 5902C246
ED7ABF91 F13A5D38 12588D67 AECF74D5 4DA191F8 A2938F53
71772870 853C9228 85875BBC 8A5103AB ED01D10C E2B9F381
```

OtherInfo is

```
12345678 9ABCDEFO 414C4943 45313233 424F4242 59343536
```

DerivedKeyMaterial is

```
3F753BE6 F4789EF7 118B0A21 9B14B011
484791A0 1A0D32D3 0585F595 55B61063 68FBF512 FE36483B
8EBF4945 BBE2D2D9 278D9BBE CCF18F26 A0CE02A6 8DBB57E7
749E0542 F225E2AC 1A1BC554 742B1810 6A3E4508 C757F13C
B86D2DD9 845357C2 AB460A67 A2652DBC FB409A2A C0E8F29A
41BAAB96 773216B6 A0127A56 69FA8577 5274B1D9 603A560E
F94E8641 43A458AD 6BDF9083 7BB2ACD6 FDF48123 2BF66CC4
```

MacData is

4B43 5F315F55 414C4943 45424F42 425901EB B34DD757
21ABF8AD C9DBED17 889CBB97 65D90A7C 60F2CEF0 07BB0F2B
26E14881 FD4442E6 89D61CB2 DD046EE3 0E3FFD20 F9A45BBD
F6413D58 3A2DBF59 924FD35C 00F6B632 D194C038 8E22D843
7E558C55 2AE195AD FD153F92 D7490835 1B2F8C4E DA94EDB0
916D1B53 C020B5EE CAED1A5F C38A233E 4830587B B2EE3489
B3B42A5A 86A40020 905F7F3A 0298275E 33482000 1D90F0B2
F19737D1 F8452AC5 54BEEB7A ECB9A566 5E43DF31 3C361B1A
9DC118D1 570D001F 3369934C 33DC782E D003C8FA 6F04553D

MacKey is

3F753BE6 F4789EF7
118B0A21 9B14B011 484791A0 1A0D32D3 0585F595 55B61063

Mtag is

6E07FA4C E93B7E89 24BBBD0D C61AE9E0
B2907CCB B2DF2469 6C80BA0C 7E0229D0 F5929E85 FE1EF024
65FA9DEF 8FA1D8CC 3AEB08B9 C9206E8D 6DE6AE99 B81C1757

KeyData is

68FBF512 FE36483B
8EBF4945 BBE2D2D9 278D9BBE CCF18F26 A0CE02A6 8DBB57E7
749E0542 F225E2AC 1A1BC554 742B1810 6A3E4508 C757F13C
B86D2DD9 845357C2 AB460A67 A2652DBC FB409A2A C0E8F29A
41BAAB96 773216B6 A0127A56 69FA8577 5274B1D9 603A560E
F94E8641 43A458AD 6BDF9083 7BB2ACD6 FDF48123 2BF66CC4

Scheme Responder, Key Confirmation Provider: V to U

NonceU is

0020 905F7F3A 0298275E 33482000 1D90F0B2
F19737D1 F8452AC5 54BEEB7A ECB9A566 5E43DF31 3C361B1A
9DC118D1 570D001F 3369934C 33DC782E D003C8FA 6F04553D

Z is

0142 29035D7F 7F1F6331 0B786136 5902C246

ED7ABF91 F13A5D38 12588D67 AECF74D5 4DA191F8 A2938F53
71772870 853C9228 85875BBC 8A5103AB ED01D10C E2B9F381

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

3F753BE6 F4789EF7 118B0A21 9B14B011
484791A0 1A0D32D3 0585F595 55B61063 68FBF512 FE36483B
8EBF4945 BBE2D2D9 278D9BBE CCF18F26 A0CE02A6 8DBB57E7
749E0542 F225E2AC 1A1BC554 742B1810 6A3E4508 C757F13C
B86D2DD9 845357C2 AB460A67 A2652DBC FB409A2A C0E8F29A
41BAAB96 773216B6 A0127A56 69FA8577 5274B1D9 603A560E
F94E8641 43A458AD 6BDF9083 7BB2ACD6 FDF48123 2BF66CC4

MacData is

4B435F31
5F56424F 42425941 4C494345 01EBB34D D75721AB F8ADC9DB
ED17889C BB9765D9 0A7C60F2 CEF007BB 0F2B26E1 4881FD44
42E689D6 1CB2DD04 6EE30E3F FD20F9A4 5BBDF641 3D583A2D
BF59924F D35C00F6 B632D194 C0388E22 D8437E55 8C552AE1
95ADFD15 3F92D749 08351B2F 8C4EDA94 EDB0916D 1B53C020
B5EECAED 1A5FC38A 233E4830 587BB2EE 3489B3B4 2A5A86A4

MacKey is

3F753BE6 F4789EF7
118B0A21 9B14B011 484791A0 1A0D32D3 0585F595 55B61063

Mtag is

0B6E0BC7 95CFEF22 0326AA13 6DEB0779
CBA2A842 721CCD74 80B1F98F 7ADA003C 8111D8BF E0AA540C
E4F1A392 A00F8685 4B96BD55 9C7DB7E3 E0D0D776 4F399775

KeyData is

68FBF512 FE36483B
8EBF4945 BBE2D2D9 278D9BBE CCF18F26 A0CE02A6 8DBB57E7
749E0542 F225E2AC 1A1BC554 742B1810 6A3E4508 C757F13C
B86D2DD9 845357C2 AB460A67 A2652DBC FB409A2A C0E8F29A
41BAAB96 773216B6 A0127A56 69FA8577 5274B1D9 603A560E
F94E8641 43A458AD 6BDF9083 7BB2ACD6 FDF48123 2BF66CC4

Scheme Initiator, Key Confirmation Bilateral

NonceV is

0020 905F7F3A 0298275E 33482000 1D90F0B2
F19737D1 F8452AC5 54BEEB7A ECB9A566 5E43DF31 3C361B1A
9DC118D1 570D001F 3369934C 33DC782E D003C8FA 6F04553D

Z is

0142 29035D7F 7F1F6331 0B786136 5902C246
ED7ABF91 F13A5D38 12588D67 AECF74D5 4DA191F8 A2938F53
71772870 853C9228 85875BBC 8A5103AB ED01D10C E2B9F381

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

3F753BE6 F4789EF7 118B0A21 9B14B011
484791A0 1A0D32D3 0585F595 55B61063 68FBF512 FE36483B
8EBF4945 BBE2D2D9 278D9BBE CCF18F26 A0CE02A6 8DBB57E7
749E0542 F225E2AC 1A1BC554 742B1810 6A3E4508 C757F13C
B86D2DD9 845357C2 AB460A67 A2652DBC FB409A2A C0E8F29A
41BAAB96 773216B6 A0127A56 69FA8577 5274B1D9 603A560E
F94E8641 43A458AD 6BDF9083 7BB2ACD6 FDF48123 2BF66CC4

U2V

MacData is

4B43 5F325F55 414C4943 45424F42 425901EB B34DD757
21ABF8AD C9DBED17 889CBB97 65D90A7C 60F2CEF0 07BB0F2B
26E14881 FD4442E6 89D61CB2 DD046EE3 0E3FFD20 F9A45BBD
F6413D58 3A2DBF59 924FD35C 00F6B632 D194C038 8E22D843
7E558C55 2AE195AD FD153F92 D7490835 1B2F8C4E DA94EDB0
916D1B53 C020B5EE CAED1A5F C38A233E 4830587B B2EE3489
B3B42A5A 86A40020 905F7F3A 0298275E 33482000 1D90F0B2
F19737D1 F8452AC5 54BEEB7A ECB9A566 5E43DF31 3C361B1A
9DC118D1 570D001F 3369934C 33DC782E D003C8FA 6F04553D

MacKey is

3F753BE6 F4789EF7
118B0A21 9B14B011 484791A0 1A0D32D3 0585F595 55B61063

Mtag is

7F400BD7 E1E64884 309B256E 2CA57375
EEFB825E EB117058 0BB4FADC 2DC23484 ADEAAE61 79BC6292
BDC84C22 8ABC28BF 99B1064D 4842C6CD D20F1244 19A03AC1

V2U

MacData is

4B43 5F325F56 424F4242 59414C49 43450020 905F7F3A
0298275E 33482000 1D90F0B2 F19737D1 F8452AC5 54BEEB7A
ECB9A566 5E43DF31 3C361B1A 9DC118D1 570D001F 3369934C
33DC782E D003C8FA 6F04553D 01EBB34D D75721AB F8ADC9DB
ED17889C BB9765D9 0A7C60F2 CEF007BB 0F2B26E1 4881FD44
42E689D6 1CB2DD04 6EE30E3F FD20F9A4 5BBDF641 3D583A2D
BF59924F D35C00F6 B632D194 C0388E22 D8437E55 8C552AE1
95ADFD15 3F92D749 08351B2F 8C4EDA94 EDB0916D 1B53C020
B5EECAED 1A5FC38A 233E4830 587BB2EE 3489B3B4 2A5A86A4

MacKey is

3F753BE6 F4789EF7
118B0A21 9B14B011 484791A0 1A0D32D3 0585F595 55B61063

Mtag is

63017ABC 7778F87D 061C9247 B2E58A18
9102C27B 100B00D3 FBD132D4 677F26B9 58A6C5E7 4C050F82
7C5E5A72 A7F7AFF2 E9745287 EF1D8DB9 C199C9BA 180FB0D5

KeyData is

68FBF512 FE36483B
8EBF4945 BBE2D2D9 278D9BBE CCF18F26 A0CE02A6 8DBB57E7
749E0542 F225E2AC 1A1BC554 742B1810 6A3E4508 C757F13C
B86D2DD9 845357C2 AB460A67 A2652DBC FB409A2A C0E8F29A
41BAAB96 773216B6 A0127A56 69FA8577 5274B1D9 603A560E
F94E8641 43A458AD 6BDF9083 7BB2ACD6 FDF48123 2BF66CC4

OnePassDiffieHellmanCDH(P-521)

dsV is

00A0 752E306C ECD87AB0 E4830DA1 44F8038C
E7B8C2B3 E5422ACF 9AAA6CCF 21818316 9A4CCA2A D577A64E
6D86DCBF F5C1727A 11FD1CB8 E3A53842 B84005FD A9AC7F36

QsV_x is

0128 C16B23A4 259C9FE4 257C1DA4 3C7735C4
3337929E 0FD86CC2 A778975B 67184CC2 825F6E66 7876D404
BBF03E04 1F8FAD2F CCC036CD 5448B64E 9BD7DF6F 537659BB

QsV_y is

0108 089A6431 FED52344 DD5859A0 E5432D16
9BEE36F5 3F857AED 08A69FE3 07B1C94B 8ABDCF65 0C4D1297
29D69FB7 7D1CC1CD 651C676B 309CE018 C9771EAB 9CA5A754

deU is

0113 F82DA825 735E3D97 276683B2 B74277BA
D27335EA 71664AF2 430CC4F3 3459B966 9EE78B3F FB9B8683
015D344D CBFEF6FB 9AF4C6C4 70BE2545 16CD3C1A 1FB47362

QeU_x is

01EB B34DD757 21ABF8AD C9DBED17 889CBB97
65D90A7C 60F2CEF0 07BB0F2B 26E14881 FD4442E6 89D61CB2
DD046EE3 0E3FFD20 F9A45BBB F6413D58 3A2DBF59 924FD35C

QeU_y is

00F6 B632D194 C0388E22 D8437E55 8C552AE1
95ADFD15 3F92D749 08351B2F 8C4EDA94 EDB0916D 1B53C020
B5EECAED 1A5FC38A 233E4830 587BB2EE 3489B3B4 2A5A86A4

no Key Confirmation

Z is

0104 F83D9416 E8BB0FEB CBAC67FE CA3F23A1
54E9ECE9 CE152A38 1308754A E68B575A 67D0BA3E 7FAB218C

74C58BEF DB2E494D 510158A2 5EF077C1 D1C89E58 5F1C44F7

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

C0F84A40 108F717A
B9B7270C B8483BFA 4B2769E3 420C7259 C5E9FF93 F806C623
878B2215 E5784481 5B7AA0B6 BF36B690 BDCAE103 F1A24DB3
C6C3B58F 10B3A545 CD718E8B 358E1EE2 F9707D5F 54C8693A
E313F1C2 0737706B DDC7813C F0AB701F 27DC1382 8DB5FAC8
28455FF9 4AD3E1ED BA60FA73 5112F751 755ACF29 2AAF0D52

KeyData is

C0F84A40 108F717A
B9B7270C B8483BFA 4B2769E3 420C7259 C5E9FF93 F806C623
878B2215 E5784481 5B7AA0B6 BF36B690 BDCAE103 F1A24DB3
C6C3B58F 10B3A545 CD718E8B 358E1EE2 F9707D5F 54C8693A
E313F1C2 0737706B DDC7813C F0AB701F 27DC1382 8DB5FAC8
28455FF9 4AD3E1ED BA60FA73 5112F751 755ACF29 2AAF0D52

Scheme Responder, Key Confirmation Provider: V to U

Z is

0104 F83D9416 E8BB0FEB CBAC67FE CA3F23A1
54E9ECE9 CE152A38 1308754A E68B575A 67D0BA3E 7FAB218C
74C58BEF DB2E494D 510158A2 5EF077C1 D1C89E58 5F1C44F7

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 424F4242 59343536

DerivedKeyMaterial is

C0F84A40 108F717A B9B7270C B8483BFA
4B2769E3 420C7259 C5E9FF93 F806C623 878B2215 E5784481
5B7AA0B6 BF36B690 BDCAE103 F1A24DB3 C6C3B58F 10B3A545
CD718E8B 358E1EE2 F9707D5F 54C8693A E313F1C2 0737706B
DDC7813C F0AB701F 27DC1382 8DB5FAC8 28455FF9 4AD3E1ED
BA60FA73 5112F751 755ACF29 2AAF0D52 2CD329F4 B4266D87

217A098B B81B8A26 9DD3A410 78668E31 74C0E4B9 D0A1F216

MacData is

4B435F31
5F56424F 42425941 4C494345 01EBB34D D75721AB F8ADC9DB
ED17889C BB9765D9 0A7C60F2 CEF007BB 0F2B26E1 4881FD44
42E689D6 1CB2DD04 6EE30E3F FD20F9A4 5BBDF641 3D583A2D
BF59924F D35C00F6 B632D194 C0388E22 D8437E55 8C552AE1
95ADFD15 3F92D749 08351B2F 8C4EDA94 EDB0916D 1B53C020
B5EECAED 1A5FC38A 233E4830 587BB2EE 3489B3B4 2A5A86A4

MacKey is

C0F84A40 108F717A
B9B7270C B8483BFA 4B2769E3 420C7259 C5E9FF93 F806C623

Mtag is

9A8B208D 0DBB8215 E8E3F003 3F626C5C
28B9953D 20E6B824 1DBB13EB 31557C04 9ABFCC60 D9990DEB
ABF29DBF D3780D8A D3786313 CA4609CE 4A37F833 086A3CF8

KeyData is

878B2215 E5784481
5B7AA0B6 BF36B690 BDCAE103 F1A24DB3 C6C3B58F 10B3A545
CD718E8B 358E1EE2 F9707D5F 54C8693A E313F1C2 0737706B
DDC7813C F0AB701F 27DC1382 8DB5FAC8 28455FF9 4AD3E1ED
BA60FA73 5112F751 755ACF29 2AAF0D52 2CD329F4 B4266D87
217A098B B81B8A26 9DD3A410 78668E31 74C0E4B9 D0A1F216

StaticUnifiedCDH(P-521)

dsU is

017D 1527DCC7 C046E4D3 04600ED0 D3A625F6
AA46C475 14D92CB6 A6416C1B 8978B3E6 E9796830 6FFC49D0
0371CCBD 4B796AA3 6547A6ED 3E78BBDF F2CFF34C E4C57FC9

QsU_x is

00D0 C2D9A667 F85A3C27 0C838535 04616791
F3052858 3CF2D5CD D35D4E77 D440FE51 01DFC0E1 953983A9

C1D7C330 7E6213FB CEB3D113 460D7B45 BBACAE5D 54B68166

QsU_y is

01C8 A85F0367 B3B1F4DE 8A74021E 08E13EA5
65EF012E 647DD317 3B21DD6B B9987155 73063EBB 3152CAA7
91ABD47F D31FB528 799413F8 DFF76E28 64E9870A 262ECACB

dsV is

00A0 752E306C ECD87AB0 E4830DA1 44F8038C
E7B8C2B3 E5422ACF 9AAA6CCF 21818316 9A4CCA2A D577A64E
6D86DCBF F5C1727A 11FD1CB8 E3A53842 B84005FD A9AC7F36

QsV_x is

0128 C16B23A4 259C9FE4 257C1DA4 3C7735C4
3337929E 0FD86CC2 A778975B 67184CC2 825F6E66 7876D404
BBF03E04 1F8FAD2F CCC036CD 5448B64E 9BD7DF6F 537659BB

QsV_y is

0108 089A6431 FED52344 DD5859A0 E5432D16
9BEE36F5 3F857AED 08A69FE3 07B1C94B 8ABDCF65 0C4D1297
29D69FB7 7D1CC1CD 651C676B 309CE018 C9771EAB 9CA5A754

no Key Confirmation

NonceU is

0020 905F7F3A 0298275E 33482000 1D90F0B2
F19737D1 F8452AC5 54BEEB7A ECB9A566 5E43DF31 3C361B1A
9DC118D1 570D001F 3369934C 33DC782E D003C8FA 6F04553D

Z is

0138 A672B695 8BD784E5 D7FA8373 8AC68F9B
3423B483 F9BF539E 71141E45 DBFB7AFE D18B11C0 028B13F1
F860EF43 C480F4DA CDA20810 59D3978C 999D5D1A DE3454E4

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 09020020
905F7F3A 0298275E 33482000 1D90F0B2 F19737D1 F8452AC5

54BEEB7A ECB9A566 5E43DF31 3C361B1A 9DC118D1 570D001F
3369934C 33DC782E D003C8FA 6F04553D 424F4242 59343536

DerivedKeyMaterial is

502F5BC5 F0934777
2ECCB85C D867B79D 223D080A AD76E94B F9A6405D 5E9EBE81
5AC18328 52CC526F 21E850C7 113402B5 B1B8CF67 78CE4F43
AE3741BC 55B709D6 0B7DDE38 D0AC5501 2024E212 C714FB0C
39C122DA F6136D8E A2CC4359 F597A606 E99566A4 3E515AD7
23008707 1409F0FD 6A7D0F2E 230791B9 90F6A12C 5DD5E9F3

KeyData is

502F5BC5 F0934777
2ECCB85C D867B79D 223D080A AD76E94B F9A6405D 5E9EBE81
5AC18328 52CC526F 21E850C7 113402B5 B1B8CF67 78CE4F43
AE3741BC 55B709D6 0B7DDE38 D0AC5501 2024E212 C714FB0C
39C122DA F6136D8E A2CC4359 F597A606 E99566A4 3E515AD7
23008707 1409F0FD 6A7D0F2E 230791B9 90F6A12C 5DD5E9F3

Scheme Initiator, Key Confirmation Provider: U to V

NonceU is

0020 905F7F3A 0298275E 33482000 1D90F0B2
F19737D1 F8452AC5 54BEEB7A ECB9A566 5E43DF31 3C361B1A
9DC118D1 570D001F 3369934C 33DC782E D003C8FA 6F04553D

NonceV is

002A 26EAF7F8 44D4C41E 622F4AA9 17AB5F06
5A452352 1700C41A 5234B396 83680BCE F996099C 67FE5B46
6C1BAD07 A6C7F0F1 BBBFA3E2 A538CEA8 5A3C5936 3BEC365D

Z is

0138 A672B695 8BD784E5 D7FA8373 8AC68F9B
3423B483 F9BF539E 71141E45 DBFB7AFE D18B11C0 028B13F1
F860EF43 C480F4DA CDA20810 59D3978C 999D5D1A DE3454E4

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 09020020

905F7F3A 0298275E 33482000 1D90F0B2 F19737D1 F8452AC5
54BEEB7A ECB9A566 5E43DF31 3C361B1A 9DC118D1 570D001F
3369934C 33DC782E D003C8FA 6F04553D 424F4242 59343536

DerivedKeyMaterial is

502F5BC5 F0934777 2ECCB85C D867B79D
223D080A AD76E94B F9A6405D 5E9EBE81 5AC18328 52CC526F
21E850C7 113402B5 B1B8CF67 78CE4F43 AE3741BC 55B709D6
0B7DDE38 D0AC5501 2024E212 C714FB0C 39C122DA F6136D8E
A2CC4359 F597A606 E99566A4 3E515AD7 23008707 1409F0FD
6A7D0F2E 230791B9 90F6A12C 5DD5E9F3 4E9CE662 1224DBED
54E0005C 2AC6F95A 30808D45 EE4C8AB6 FFC5FBAC BE07CDEB

MacData is

4B435F31
5F55414C 49434542 4F424259 0020905F 7F3A0298 275E3348
20001D90 F0B2F197 37D1F845 2AC554BE EB7AECB9 A5665E43
DF313C36 1B1A9DC1 18D1570D 001F3369 934C33DC 782ED003
C8FA6F04 553D002A 26EAF7F8 44D4C41E 622F4AA9 17AB5F06
5A452352 1700C41A 5234B396 83680BCE F996099C 67FE5B46
6C1BAD07 A6C7F0F1 BBBFA3E2 A538CEA8 5A3C5936 3BEC365D

MacKey is

502F5BC5 F0934777
2ECCB85C D867B79D 223D080A AD76E94B F9A6405D 5E9EBE81

Mtag is

A12E81CA 6179767B 1F9849C2 F0200354
6C404E9E B7FCB6AD 2A567DB7 B19BBCF5 A4838DDD C791CD8B
28D70C36 FBADD63E B1D35A75 E31194FD 6BE45449 D1452D49

KeyData is

5AC18328 52CC526F
21E850C7 113402B5 B1B8CF67 78CE4F43 AE3741BC 55B709D6
0B7DDE38 D0AC5501 2024E212 C714FB0C 39C122DA F6136D8E
A2CC4359 F597A606 E99566A4 3E515AD7 23008707 1409F0FD
6A7D0F2E 230791B9 90F6A12C 5DD5E9F3 4E9CE662 1224DBED
54E0005C 2AC6F95A 30808D45 EE4C8AB6 FFC5FBAC BE07CDEB

Scheme Responder, Key Confirmation Provider: V to U

NonceV is

002A 26EAF7F8 44D4C41E 622F4AA9 17AB5F06
5A452352 1700C41A 5234B396 83680BCE F996099C 67FE5B46
6C1BAD07 A6C7F0F1 BBBFA3E2 A538CEA8 5A3C5936 3BEC365D

NonceU is

0020 905F7F3A 0298275E 33482000 1D90F0B2
F19737D1 F8452AC5 54BEEB7A ECB9A566 5E43DF31 3C361B1A
9DC118D1 570D001F 3369934C 33DC782E D003C8FA 6F04553D

Z is

0138 A672B695 8BD784E5 D7FA8373 8AC68F9B
3423B483 F9BF539E 71141E45 DBFB7AFE D18B11C0 028B13F1
F860EF43 C480F4DA CDA20810 59D3978C 999D5D1A DE3454E4

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 09020020
905F7F3A 0298275E 33482000 1D90F0B2 F19737D1 F8452AC5
54BEEB7A ECB9A566 5E43DF31 3C361B1A 9DC118D1 570D001F
3369934C 33DC782E D003C8FA 6F04553D 424F4242 59343536

DerivedKeyMaterial is

502F5BC5 F0934777 2ECCB85C D867B79D
223D080A AD76E94B F9A6405D 5E9EBE81 5AC18328 52CC526F
21E850C7 113402B5 B1B8CF67 78CE4F43 AE3741BC 55B709D6
0B7DDE38 D0AC5501 2024E212 C714FB0C 39C122DA F6136D8E
A2CC4359 F597A606 E99566A4 3E515AD7 23008707 1409F0FD
6A7D0F2E 230791B9 90F6A12C 5DD5E9F3 4E9CE662 1224DBED
54E0005C 2AC6F95A 30808D45 EE4C8AB6 FFC5FBAC BE07CDEB

MacData is

4B43 5F315F56 424F4242
59414C49 43450020 905F7F3A 0298275E 33482000 1D90F0B2
F19737D1 F8452AC5 54BEEB7A ECB9A566 5E43DF31 3C361B1A
9DC118D1 570D001F 3369934C 33DC782E D003C8FA 6F04553D

MacKey is

502F5BC5 F0934777
2ECCB85C D867B79D 223D080A AD76E94B F9A6405D 5E9EBE81

Mtag is

332E2BED 457524D1 B542DF81 38F54D95
AEC9D484 C579996F 871BAEFC B503972F ED5A34B9 99D4FD28
63A018CA CC05BB83 3F1E0521 43904468 80AA12E5 59C3E57A

KeyData is

5AC18328 52CC526F
21E850C7 113402B5 B1B8CF67 78CE4F43 AE3741BC 55B709D6
0B7DDE38 D0AC5501 2024E212 C714FB0C 39C122DA F6136D8E
A2CC4359 F597A606 E99566A4 3E515AD7 23008707 1409F0FD
6A7D0F2E 230791B9 90F6A12C 5DD5E9F3 4E9CE662 1224DBED
54E0005C 2AC6F95A 30808D45 EE4C8AB6 FFC5FBAC BE07CDEB

Scheme Initiator, Key Confirmation Bilateral

NonceU is

0020 905F7F3A 0298275E 33482000 1D90F0B2
F19737D1 F8452AC5 54BEEB7A ECB9A566 5E43DF31 3C361B1A
9DC118D1 570D001F 3369934C 33DC782E D003C8FA 6F04553D

NonceV is

002A 26EAF7F8 44D4C41E 622F4AA9 17AB5F06
5A452352 1700C41A 5234B396 83680BCE F996099C 67FE5B46
6C1BAD07 A6C7F0F1 BBBFA3E2 A538CEA8 5A3C5936 3BEC365D

Z is

0138 A672B695 8BD784E5 D7FA8373 8AC68F9B
3423B483 F9BF539E 71141E45 DBFB7AFE D18B11C0 028B13F1
F860EF43 C480F4DA CDA20810 59D3978C 999D5D1A DE3454E4

OtherInfo is

12345678 9ABCDEF0 414C4943 45313233 09020020
905F7F3A 0298275E 33482000 1D90F0B2 F19737D1 F8452AC5
54BEEB7A ECB9A566 5E43DF31 3C361B1A 9DC118D1 570D001F

3369934C 33DC782E D003C8FA 6F04553D 424F4242 59343536

DerivedKeyMaterial is

502F5BC5 F0934777 2ECCB85C D867B79D
223D080A AD76E94B F9A6405D 5E9EBE81 5AC18328 52CC526F
21E850C7 113402B5 B1B8CF67 78CE4F43 AE3741BC 55B709D6
0B7DDE38 D0AC5501 2024E212 C714FB0C 39C122DA F6136D8E
A2CC4359 F597A606 E99566A4 3E515AD7 23008707 1409F0FD
6A7D0F2E 230791B9 90F6A12C 5DD5E9F3 4E9CE662 1224DBED
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U2V

MacData is

4B435F32
5F55414C 49434542 4F424259 0020905F 7F3A0298 275E3348
20001D90 F0B2F197 37D1F845 2AC554BE EB7AECB9 A5665E43
DF313C36 1B1A9DC1 18D1570D 001F3369 934C33DC 782ED003
C8FA6F04 553D002A 26EAF7F8 44D4C41E 622F4AA9 17AB5F06
5A452352 1700C41A 5234B396 83680BCE F996099C 67FE5B46
6C1BAD07 A6C7F0F1 BBBFA3E2 A538CEA8 5A3C5936 3BEC365D

MacKey is

502F5BC5 F0934777
2ECCB85C D867B79D 223D080A AD76E94B F9A6405D 5E9EBE81

Mtag is

858013F9 A125A145 CDE0839A 16109570
01E5CE24 137679E1 73DBAF5C 2853C810 81C746BD AEF5AC60
F7CE18F0 D532AE82 9BAD7FCB B64D92DE 40C13B3B B8F21769

V2U

MacData is

4B435F32
5F56424F 42425941 4C494345 002A26EA F7F844D4 C41E622F
4AA917AB 5F065A45 23521700 C41A5234 B3968368 0BCEF996
099C67FE 5B466C1B AD07A6C7 F0F1BBBF A3E2A538 CEA85A3C
59363BEC 365D0020 905F7F3A 0298275E 33482000 1D90F0B2
F19737D1 F8452AC5 54BEEB7A ECB9A566 5E43DF31 3C361B1A
9DC118D1 570D001F 3369934C 33DC782E D003C8FA 6F04553D

MacKey is

502F5BC5 F0934777
2ECCB85C D867B79D 223D080A AD76E94B F9A6405D 5E9EBE81

Mtag is

0FBB421D 3538D824 DBA92CFB EE51D96D
9420F397 5AA02313 BE8F5D6F 72696C09 486A377A FF68F8E8
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KeyData is

5AC18328 52CC526F
21E850C7 113402B5 B1B8CF67 78CE4F43 AE3741BC 55B709D6
0B7DDE38 D0AC5501 2024E212 C714FB0C 39C122DA F6136D8E
A2CC4359 F597A606 E99566A4 3E515AD7 23008707 1409F0FD
6A7D0F2E 230791B9 90F6A12C 5DD5E9F3 4E9CE662 1224DBED
54E0005C 2AC6F95A 30808D45 EE4C8AB6 FFC5FBAC BE07CDEB