

—LCEø,È□ø-¾,ª, ,é^À'S,ÈfTfCfg,É^Ú“©,·,é

,±,lfTfCfg,ì□ø-¾,Í—LCEø,Å,·□B

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¾,É,Í□AfTfCfg,ì□gCE³,ð•Ú□ø,·,é□î•ñ,ªŠÜ,Ü,é,Ä,ç,Ü,·□B,±,é,É,æ,è□A,Ü,©,lfTfCfg,ª^À'S,ÈfTfCfg,ð'•,±,±,Æ,ð-hŽ~ ,Å,« ,Ü,·

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∅<sup>-3/4</sup>, a<sup>-3</sup>CE∅, É, È, Á, Ä, ç, é^À'S, ÈfTfCfG, É^Ú"®, ·, é

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∅<sup>-3/4</sup>, É, í∅AftfCfG, ì^À'S∅«, ÉŠÖ, ·, é∅î•ñ, Æ∅AftfCfG, ì∅gCE<sup>3</sup>, ∂•Ú∅∅, ·, é∅î•ñ, aŠÜ, Ü, é, Ä, ç, Ü, ·∅B, ±, é, É, æ, è∅A, Ü, ©, ìfTfCfG, a^À'S, ÈfTfCfG, ∂'•, ±, Æ, ∂-hŽ~ , Å, «, Ü, ·∅BftfCfG, ì∅<sup>-3/4</sup>, í—LCE∅ŠúCEÀ•t, «, Å"-∅s, <sup>3</sup>, é, Ü, ·∅B^À'S, ÈfTfCfG, É^Ú"®, μ, æ, ±, Æ, ·, é, Æ∅A∅<sup>-3/4</sup>, ì—LCE∅ŠúCEÀ, a∅∅, é, Ä, ç, È, ç, ±, Æ, aŠm"F, <sup>3</sup>, é, Ü, ·∅B—LCE∅ŠúCEÀ, a∅∅, é, Ä, ç, 1/2, è∅A-<sup>3</sup>CE∅, Å, , Á, 1/2, è, ·, é, ÆCEx∅∅, a•\Ž!, <sup>3</sup>, é, Ü, ·∅B

∅<sup>-3/4</sup>, ì∅Ú∅x, ∂•\Ž!, ·, é, É, í∅Af\_fCfAf∅fO f{fbfNfX, ì [∅<sup>-3/4</sup>, ì•\Ž!], ∂fNfŠfbfN, μ, Ü, ·

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∅<sup>-3/4</sup>,<sup>a</sup>-<sup>3</sup>CE∅,É,È,Á,Ä,ç,éftfCfg

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∅<sup>-3/4</sup>,É,í∅AftfCfg,ì^À'S∅«,ÉŠÖ,·,é∅î•ñ,Æ∅AftfCfg,ì∅gCE<sup>3</sup>,ð•Ú∅∅,·,é∅î•ñ,<sup>a</sup>SÜ,Ü,è,Ä,ç,Ü,·∅B,±  
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**^À'S,ÈfTfCfgr,©,ç,Ù,©,ìfTfCfgr,É^Ú"®,.,é**

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**fffWf^f<□□-¼**

fffWf^f<□□-¼, íAŽè□', «, ì□□-¼, ÆŽ—, Ä, ç, Ü, ·□B•¶□', É□□-¼, ð, ·, é, Æ□A, »; ì•¶□', ì□Ó"C, ð•%oo, ±, Æ, É, È, è, Ü, ·, ðAfffWf^f<□□-¼, à"—I, Å, ·□B□Å, à□M—Š, Å, «, éfffWf^f<□□-¼, íA□□-¼ŽÒ, ð- {□I, Å, , é, ±, Æ, ð•Ü□Ø, µ, Ü, ·□B

fffWf^f<□□-¼, íA" äŠr" I□V, µ, ç, à, ì, Å, , è□A, ·, x, Ä, ì"□sŽÒ, ðŽg—p, µ, Ä, ç, é, Æ, íCEÀ, è, Ü, ¹, ñ□B'½,, ìf\ ftfgfEfffA, É, í□A, Ü, ¾□□-¼, ð"Y•t, ³, ê, Ä, ç, Ü, ¹, ñ□B

Ø-¾

Ø-¾, íAfffWf^f<Ø-¾,ª—LCEø,Å, ,é,±,Æ,ð•ÛØ,µ,Û,·BØ-¾,íA,³,Û,´,Û,È'gØD,É,æ,Á,Ä"Øs,³,ê,Ä,ç,Û,·B,±,ê,ç,ì'gØD,íCEöØØí,ÉŽ—,Ä,¨,èAØ-¾,íCEöØØí,ìØ^ó,ÉŽ—,Ä,ç,Û,·B,±,ìØ-¾,É,æ,Á,ÄAØ-¾ŽÒ,ìgCE³,ª•ÛØ,³,ê,Û,·B

【à-¾】

,±,ìftfB[f<fh,É,íAfffWf^f<¼,³,ê,Ä,ç,é“à—e,ìà-¾,a•\Ž|,³,ê,Ü,·Bà-¾,ÍŠÈ%°,É 1  
s,ì•¶,É,Ü,Æ,ß,ç,ê,Ä,ç,Ü,·B



**[Ú×î•ň,žQÆ,Å,«,é URL]**

,±,ìftfB[fjfh,É,íAfffWf^f<□□-¼,³,ê,Ä,ç,é“à—e,ìÚ×,Èî•ň,žQÆ,·,é,½,ß,ì•W€,ì URL ,ª•\Ž!,³,ê,Ü,  
(—á: <http://www.mysite.com/mycontent> ,Ü,½,í mailto: [me@mysite.com](mailto:me@mysite.com) ,È,Ç)□B

**[f^fCf€fXf^f“fv fT[f0[f[,lfAfhfCefX]**

Microsoft ,l Timestamp Requester ,đŽg,Á,ÄffWf^f< f^fCf€fXf^f“fv,đ”s,μ,Ä,č,éT[f0[f[,lfAfhfCefX,ª•\  
Žl,³,ê,Ü,·BCE»ŸAVerisign ŽĐ,l Timestamp Requester  
(http://timestamp.verisign.com/scripts/timestamp.dll) ,ªÅ,à—L-¼,Å,·B,±,lfB[f<fh,ì¶‘ª  
,ª<ó”,ìê¶A“à—e,É“Y•t,³,ê,½-¼,ì—LCEøŠúCEÀ,íA-¼Ø-¾,ì—LCEøŠúCEÀ,Æ“”,¶“úŽž,É,È,è,Ü,·B

,±,ifwfv ID ,δ□□œ,μ,Û,·□B



∅-¾,đ"∅s,μ,½∅-¾<@ŠÖ,ì-¼'O,đ•\Ž!,μ,Ü,·∅B

∅-¾<@ŠÖ (CA) ,íA∅-¾,đ∅<∅,μ,Ä,ç,éĈÂ∅! (,Ü,½,í%öiŽĐ) ,∅A∅'è,³,ê,Ä,ç,éĈ'¥,đ-ž,½,μ,Ä,ç,é,±  
,Æ,đ-š∅∅,·,é∅-¾,đ"∅s,·,é^í"C'ì,Ä,·∅B

∅-¼XfgfA,É∅-¾,øfCf“fXfg[f<,·,é,É,íA,±,lf{f^f“,øfNfŠfbfN,μ,Ü,·B

ftfCEf"fhfŠ-¼,âà-¾,È,ÇA•ÒW%oÂ"\,ÈØ-¾,ìvfjfpfefB,ð•ĩX,μ,½,èA<-%oÂ,³,ê,Ä,ç,é-Ú"l,îê—  
,ð§CEÀ,·,é,É,íA,±,ìf{f^f",ðfNfŠfbfN,μ,Û,·B

"sCE³,ìØ-¾<@ŠÖ,ìÚ×î•ñ,ª, ,ééè#A,» ,ìî•ñ,ð•Ž!,·,é,É,íA,±,ìf{f^f",đNfŠfbfN,μ,Ü,·B



∅-¼,δ<-‰∆,·,é,É,í∆,±,lf{f^f“,đfNfŠfbfN,μ,Û,·∆B

∅-¾,δ<”Ù,·,é,É,íA,±,ìf{f^f”,δfNfŠfbfN,μ,Ü,·B

∅-¾<@ŠÖ,žw'è,;é∅-¾,ìŽg—p-Ú“l,î^ê—,đ•\Ž!,μ,Û,·∅B

,±,ifwfv ID ,δ□□œ,μ,Û,·□B

□∅-¾,ª—LŒ∅,ÈŠúŠÔ,đ•\Ž!,µ,Û,·□B






∅-¾,ÉŠÖ~A,·,é"é-šfL□[,đŽ□,Á,Ä,ç,é,©,Ç,κ,©,đ•\Ž!,μ,Û,·□B

"é-šfL□[,í□ACEöŠjfl□[fZfLf...fŠfefB,ĂŽg—p,<sup>3</sup>,è,éfl□[,lfyfA,ì,κ,¿□A"é-š,É,<sup>3</sup>,è,Ä,ç,é"¼•²,Á,·□B"é-  
šfL□[,í□AfbfZ□[fW,ÉffWf^f<□□-¼,μ,½,è□A'ì%ož,·,éCEöŠjfl□[,Ă^Ă□t  
%o»,<sup>3</sup>,è,½f□fbfZ□[fW,đ•œ□t,·,é,Æ,«,ÉŽg—p,<sup>3</sup>,è,Û,·□B

^È%º,É•\Ž,³,ê,Ä,ç,é X.509 ftjB□[f<fh,Ü,½,ÍŠg'£Žq,î^ê—,ìŒ»□Ý,ì'l,đ•\Ž,μ,Ü,·□B^ê—,î^ê•",đ•\Ž,·,é,±,Æ,đ'l'đ,Ā,«,Ü,·□B

∅-¾,lfRfs[]l,ðftf@fCf<,É•Û'¶,·,é,É,í[]A,±,lf{f^f",ðfNfŠfbfN,μ,Û,·[]B



-  Ø-¾, ì†, ÅĀŸo, ³, ê, ½, ·, x, Ä, ì X.509 ftfb [f<fh AŠg' £Žq A, ", æ, ÑŠÖ~ Afvf [fpfefB, ì^è—, ð·\Ž!, μ, Ü, · B
-  X.509 Version 1 ftfb [f<fh, ð·\, μ, Ü, · B
-  d'â, Å, í, È, ç X.509 Version 3 Šg' £Žq, ð·\, μ, Ü, · B
-  d'â, È X.509 Version 3 Šg' £Žq, ð·\, μ, Ü, · B
-  Ø-¾, ÉŠÖ~ A, ·, é·Ò W%oÅ" \, Èfvf [fpfefB, ð·\, μ, Ü, · B

'l'đ,³,ê,½ftfB□[f<fh,Ü,½,ÍŠg'£Žq,đ□Ú□×,É•\Ž!,μ,Ü,·□B

,±,ì∅-¾,ì∅-¾pfX,đ•\Ž!,μ,Ü,·∅B∅-¾pfX,í∅AŠÖ~A,·,é∅-¾,ì`fFfCf“,Å,·∅B

'l'đ,³,ê,½∅-¾,Ü,½,í∅-¾'∅M—Š^ê—,đú×,É•Ž!,μ,Ü,·∅B

'l'đ,³,ê,½∅-¾,Ü,½,í∅-¾∅'∅M-Š^ê—,ìó'Ô,đ•Ž!,μ,Ü,·∅B

☐Ø-¾☐'☐M—Š^ê—“à,ì'®☐«,ÆŠÖ~A,·,éfvf☐fpfefB,ì^ê—,ð•\Ž!,μ,Û,·☐B  
☐Ø-¾☐'☐M—Š^ê—,ì'®☐«,ð•\,μ,Û,·☐B  
☐d'â,Â,È,çŠg'£Žq,ð•\,μ,Û,·☐B  
☐d'â,ÈŠg'£Žq,ð•\,μ,Û,·☐B  
☐Ø-¾☐'☐M—Š^ê—,ÉŠÖ~A,·,é•Ò☐W%oÂ"\,Èfvf☐fpfefB,ð•\,μ,Û,·☐B

'l'đ,³,ê,½'®◀,Û,½,ÍŠg'£Žq,đ◻Ú◻×,É•\Ž!,μ,Û,·◻B

∅=¼∅'∅M—Š^ê—,ìffWf^f<∅∅-¼,đ•\Ž!,·,é,É,Í∅A,±,ìf{f^f“,đfNfŠfbfN,μ,Û,·∅B




∅-¾∅'∅M-Š^ê—,ÉŠÜ,Ü,ê,é∅-¾,ì^ê—,đ•\Ž!,μ,Ü,·∅B


'l'δ,³,ê,½∅-¾,δÚ×,É•\Ž!,μ,Ü,·B


'l'đ,³,ê,½ X.509 ftfB[]f:fh,Ü,½,ÍŠg'£Žq,đÚ×,É•\Ž!,μ,Ü,·B


'l'đ,³,ê,½∅-¾,đ•\Ž!,μ,Û,·∅B

∅-¾'Žæ,èÁ,μ^ê—“à,ì'®«,ÆŠÖ~A,·,éfvf[]pfefB,ì^ê—,ð•\Ž!,μ,Ü,·B

 ∅-¾'Žæ,èÁ,μ^ê—“à,ì'®«,ð•\,μ,Ü,·B

 d'â,Â,È,çŠg'£Žq,ð•\,μ,Ü,·B

 d'â,Â,È,çŠg'£Žq,ð•\,μ,Ü,·B

 ∅-¾'Žæ,èÁ,μ^ê—,ÉŠÖ~A,·,é•Ò[]W%ooÂ"\,Èfvf[]pfefB,ð•\,μ,Ü,·B

'l'đ,³,ê,½'®◀,Û,½,ÍŠg'£Žq,đ◻Ú◻×,É•\Ž!,μ,Û,·◻B

∅<sup>-3/4</sup> Zæ, è Á, μ^ ê —, ÉŠÜ, Ü, ê, éŽæ, è Á, <sup>3</sup>, ê, 1/2 ∅<sup>-3/4</sup>, Ì^ ê —, δ • Ž!, μ, Ü, · B

'l'δ,³,ê,½∅-¾,δÚ×,É•\Ž!,μ,Ü,·B



'l'đ,³,ê,½'®◀,Ü,½,ÍŠg'£Žq,đÚ×,É•Ž!,μ,Ü,·B

□Ø-¾,ÉŠÖ~A,·,éftfĀf“fhfŠ-¼,đ•\Ž!,μ,Ü,·□B

∅, ¼, É, Š, Ō, ~, A, ·, , é, à, -¾, ð, •, \, Ž, !, μ, Û, ·, □, B

∅-¾<@ŠÖ,žw'è,;é∅-¾,ì-Ú"l,ì^ê—,đ•\Ž!,μ,Ü,·∅B

^ê—,³,ê,Ä,ç,È,ç∅-¾,ì-Ú“l,ð'Ç%oÁ,·,é,É,Í∅A,±,ìf{f^f“,ðfNfŠfbfN,μ,Û,·∅B

^ê—,³,ê,Ä,ç,È,ç∅-¾,ì-Ú“l,ð'Ç%oÁ,·,é,É,Í∅A,±,ìf{f^f“,ðfNfŠfbfN,μ,Û,·∅B

^ê—,³,ê,Ä,ç,È,ç∅-¾,ì-Ú“l,ð'Ç%oÁ,·,é,É,Í∅A,±,ìf{f^f“,ðfNfŠfbfN,μ,Û,·∅B

^ê—,³,ê,Ä,ç,È,ç∅-¾,ì-Ú“l,ð'Ç%oÁ,·,é,É,Í∅A,±,ìf{f^f“,ðfNfŠfbfN,μ,Û,·∅B



□□-¼□|,ì-¼'O,đ•\Ž|,μ,Û,-□B

□□-¼□□,ì“dŽqf□□[f< fAfhfĀfX,đ•\Ž!,μ,Ü,·□B

ft@fCf<,ª□□-¼,³,ê,½“úŽž,ð•\Ž!,µ,Û,·□B

□□-¼, ĀŽQ□Æ, ³, é, é□Ø-¾, δ•\Ž!, μ, Û, ·□B

, ·, ×, Ä, Ì · > □ □, Ì ^ ê — —, ð · \check{Z}!, μ, Ü, · □ B

'l'đ,³,ê,½•>□□,ì□ú□×□í•ñ,đ•\Ž!,μ,Ü,·□B

□□-¼“à,ì,·,x,Ä,ì’®□<,ì^ê—,đ•\Ž!,μ,Ü,·□B

'l'đ,³,ê,½'®«,đÚ×,É•\Ž!,μ,Û,-B



∅-¼XfgfA,đ'đ,·,é,É,íA,±,}f{f^f",đfNfŠfbfN,μ,Ü,·B

'l'ö,¹,,Éf\_CfAf□fO,ð•Â,¶,é,É,Í□A,±,ìf{f^f“,ðfNfŠfbfN,µ,Ü,·□B

'l'đ,Ā,«,é,·,x,Ā,ì∅-¾fXfgfA,đ•\Ž!,μ,Ü,·□B

~\_—[]XfgfA (•"—[]XfgfA) ,lfRf"f[]lf"fg,à'l'ð,Å,«,é,æ,α,É[]A[]Ø-¾fXfgfAŠK'w,ð•\Ž!,μ,Ü,·[]B

∅=¼,đ'ı'đ,·,é,É,í□A,±,ıf{f^f",đfNfŠfbfN,μ,Ü,·□B

'l'ö,µ,È,ç,Åf\_fCfAf□fO,ö•Â,¶,é,É,í□A,±,ìf{f^f“,öfNfŠfbfN,µ,Ü,·□B

∅-¼, ð Ú ×, δ • Ž, , é, É, í A, ±, ð f { f ^ f “, ð f N f Š f b f N, μ, Ü, · B

'I'đ,Ā,«,é∅<sup>-3/4</sup>,l^ê—,đ•\Ž!,μ,Ü,·∅B



'l'đ,³,ê,½f^fu,Æ-Ú"l,É],Á,Ä]AfvfXfef€"à,ìØ-¾,ì^ê—,đ•Žl,μ,Û,·]B

'l'đ,³,ê,½∅-¾-Ú"l,đž,Â∅-¾,¾, -,đ•žl,μ,Û,·∅B

ffBfXfNā,ift@fCf<,©,ç∅-¾,đfCf“fllfg,·,é,É,ÍA,±,İf{f^f“,đNfŠfbfN,μ,Ü,·B

'l'đ,³,ê,½∅-¾,đf@fCf<,ÉfGfNfXf|∅[fg,·,é,É,Í∅A,±,}f{f^f",đfNfŠfbfN,μ,Ü,·∅B

'l'đ,³,ê,½∅-¾,ìú×,đ•\Ž|,·,é,É,íA,±,ìf{f^f“,đfNfŠfbfN,μ,Ü,·B

'l'ö,³,ê,½∅-¾,đVfXfef€,©,çíœ,·,é,É,íA,±,lf{f^f“,đNfŠfbfN,μ,Ü,·B

□Ú□×fVfVf#f“,đ□Ý’è,.,é,É,Í□A,±,ìf{f^f“,đfNfŠfbfN,μ,Û,·□B

f\_CfAfO f{fbfNfX,ð•Â,¶,é,É,íA,±,}f{f^f“,ðfNfŠfbfN,µ,Ü,·B





∅-¾,đ"∫s,μ,½∅-¾<@ŠÖ,ì-¼'O,đ•\Žì,μ,Ü,·∫B

□∅-¾,ì—LŒøŠúŒĀ,đ•\Ž!,μ,Ū,·□B

∅=¼,ì-ú“ì,δ•žì,μ,ü,·∅B

□Ø-¾,ÉŠÖ~A,·,éftfœf“fhfŠ-¼,ð•\Ž!,μ,Ü,·□B



∅-¾,đ"∫s,μ,½∅-¾<@ŠÖ,ì-¼'O,đ•\Žì,μ,Ü,·∫B

□∅-¾,ì—LŒøŠúŒĀ,đ•\Ž!,μ,Ū,·□B



□∅=¾,ì-Ú“l,δ•\Žl,μ,Û,·□B

□Ø-¾,ÉŠÖ~A,·,éftfœf“fhfŠ-¼,ð•\Ž!,μ,Ü,·□B

"FŽ̄,μ,Ä,ç,é,·,×,Ä,ì∅-¾-Ú"l,î^ê—,ð•\Žl,μ,Û,·B'í%ž,·,éf`fFbfN f{fbfNfX,ðfif",É,·,é,±  
,Æ,É,æ,Ä,ÄA-Ú"l,ð "Ú×" ,Æ,μ,ÄŽw'è,Ä,«,Û,·B

ø-¾,øftf@fCf< ftfHf<f\_Éfhf%fbfO,·,é,±,Æ,É,æ,Á,ÄfGfNfXf|[]fg,·,é,Æ,«,ÉŽg—  
p,<sup>3</sup>,é,éAŠù'è,ìftf@fCf<Ĉ`Ž®,\Ž!,μ,Û,·BDER Encoded Binary X.509 ,íA'P^è,ìø-¾,øfGfNfXf|  
[]fg,·,é,ì,É"K,μ,Ä,†,éfofCfifŠĈ`Ž®,Ä,·BBase64 Encoded X.509 ,íAø-¾,ø Windows ^ÉŠO,ìfRf"fsf...  
[]f^,É'—M,·,é,Æ,«,ÉĈø%oÉ"l,ÈADER fGf"FR[]fhø-¾,ìefLfXfg·Ž!,Ä,·BPKCS #7  
Ĉ`Ž®ftf@fCf<,øŽg—p,·,é,ÆAø-¾fpfX"à,ì,·,x,Ä,ìø-¾,øfGfNfXf|[]fg,Ä,«,Û,·B

fhf%fbfO fAf"fh fhfbfv,ÅfGfNfXf|[]fg,·,é,Æ,«,É[]A[]Ø-¾,ð[]Ø-¾fpfX,ÉŠÜ,þ,©,Ç,α,©,ðŽw'è,μ,Û,·[]B,±  
,ìf`fFfbfN f{fbfNfX,í[]APKCS #7 Ć`Ž@ftf@fCf<,ðŽg—p,μ,ÅfGfNfXf|[]fg,·,é,Æ,«,¾,¯Žg—p,Å,«,Û,·[]B,±  
,ê,í[]APKCS #7 ,¾,¯,ª 1 ,Â,ìftf@fCf<,ì't,Å•;[]",ì[]Ø-¾,ðfTf|[]fg,·,é,½,ß,Å,·[]B

,±,ê,Û,Â,É%Á,¼,½•ïX,ð^èØ•Û'¶,¹,,Éf\_CfAfO f{fbfNfX,ð•Â,¶,Û,·B

∅-¾<@ŠÖ,đ'!đ,·,é,É,ÍA,±,ìf{f^f“,đfNfŠfbfN,μ,Û,·B

'l'ö,¹,,Éf\_CfAf□fO f{fbfNfX,ð•Â,¶,é,É,í□A,±,}f{f^f“,ðfNfŠfbfN,µ,Ü,·□B



Active Directory ,ÉŒöŠJ,³,ê,Ä,ç,é∅-¾<@ŠÖ,ì^ê—,đ•Ž!,μ,Û,·B

f\_fCfAfO f{fbfNfX,ð•Â,¶A,±,ê,Û,Å,É%oÁ,¡,½•ĩX,ð•Û'¶,µ,Û,·B

□□-¼,î^ê—,đ•\Ž!,μ,Ü,·□B

'l'đ,³,ê,½□□-¼,đ□Ú□×,É•\Ž!,μ,Ü,·□B



