

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

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,½,¾,μA,±,é,©,ç^Ú"®,μ,æ,æ,Æ,μ,Ä,ç,éTfCfgr,É,íAØ-¾,ª,È,íA^À'S,Å,í, .è,Ü,¹,ñB

,±,ì Web fTfCfgr,É^Ú"®,.,é,©,Ç,æ,©,ð"»'f,.,é,É,íAWeb fTfCfgr,ÆŽ©•ª,ìfRf"fsf...[f^,É,Ä,ç,Ä\•ª,ÉCEÿ"ç,.,é•K—v,ª, ,è,Ü,·B

,±,é,ç,ì" \_ðCEÿ"ç,μ,½CE<%oÊA,±,ì Web fTfCfgr,Ö,ì^Ú"®,É•s^À,ðŠ´,¶,éèèñ,íA[,ç,ç,ì] ,ðfNfŠfbfN,μ,Ä,-,¾,³,çB

**[íœ]**

^ê—, ì€-Ú, ðíœ, , é, É, íA-Ú“l, ì€-Ú, ðNfŠfbfN, μA[íœ] , ðNfŠfbfN, μ, Û, ·B

**[□M—Š,Ā,«,é\ftfgfEjFfA”□sŽÒ,Æ”F□Ø,ì”□sCE³]**

,±,ì^ê—,Ā,í□AŠm”F,ìf\_cjAf□fo f{fbjNfX,ð•\Žì,¹,,ÉfCf“fXfg□lf<,Ā,«,é\ftfgfEjFfA,ì”□sŽÒ,ðŠÇ—  
□,Ā,«,Û,·□B

^ê—,É,í□ACEĀ□l,ì\ftfgfEjFfA”□sŽÒ,Æ□x<Æ“l,È\ftfgfEjFfA”□sŽÒ,ì—¼•û,ªŠÛ,Û,ê,Û,·□B^ê—,É•\  
Žì,³,ê,Ā,ç,é”□sŽÒ,ì\ftfgfEjFfA,í□AŠm”F,ìf\_cjAf□fo f{fbjNfX,ð•\Žì,¹,,ÉfCf“fXfg□lf<,,é,±,Æ,ª,Ā,«,Û,·□B  
,Û,½□A,±,ì^ê—,É,í□A”F□Ø,ì”□sCE³,àŠÛ,Û,ê,Û,·□BCEö□Ø□l,Æ”˘,¶,æ,x,É□A”F□Ø,ì”□sCE³,í□A\ftfgfEjFfA”-  
□sŽÒ,ì□gCE³,ð□Ø-¾,,é,±,Æ,ðfrfWfjfX,É,µ,Ā,ç,é’g□D,Ā,·□B^ê—,É•\Žì,³,ê,Ā,ç,é”F□Ø,ì”-  
□sCE³,É,æ,Ā,Ā□Ø-¾,³,ê,½\ftfgfEjFfA”□sŽÒ,í□A,·,x,Ā□M—Š,Ā,«,é,ÆCE©,È,³,ê,Û,·□B,Û,½□A,»,”□sŽÒ,ì\ftfgfEjFfA,í□AŠm”F,ìf\_cjAf□fo f{fbjNfX,ð•\Žì,¹,,ÉfCf“fXfg□lf<,,é,±,Æ,ª,Ā,«,Û,·□B

**[,·,×,Ä,ì□×<Æ“l,Èf\ftfgfEjFfA”□sŽÒ,ð□M—Š,·,é]**

□×<Æ“l,Èf\ftfgfEjFfA”□sŽÒ,í□A\ftfgfEjFfA,ì□»‘ç,â”ì”„,ðfjrfWfjX,É,μ,Ä,ç,éŠé<Æ,Å,·□B,Ü,½□A,±,ê,ç,ì”-  
□sŽÒ,Å,í□A\ftfgfEjFfA,ìfTf|□lfg,ðCEp’±“l,É’ñ<ÿ,Å,«,é□Å’áCEÀ,ìCEo□ì“l,È□ðCE□,ª-ž,½,³,é,Ä,ç,Ü,·□B  
,±,ìf`fFbjN f{fbfNfX,ðfìf“ ,É,·,é,Æ□A□×<Æ“l,Èf\ftfgfEjFfA”□sŽÒ,É,æ,Á,Ä□³,μ,□□-¼,³,ê,½f\  
ftfgfEjFfA,í,·,×,Ä□Åšm”F,ìf\_cjA□f□fO f{fbfNfX,ð•\Žl,¹,.,ÉfCj“fXfg□lfx,·,é,±,Æ,ª,Å,«,Ü,·□B

**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, è, 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,đŽQÆ,Â,«,é URL]**

,±,ìftfB[fjfh,É,íAfffWf^f<□□-¼,³,ê,Ä,ç,é“à—e,ìÚ×,Èî•ň,đŽQÆ,·,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,ìŸ‘ª  
,ª<ó”,ìê#A“à—e,É“Y•t,³,ê,½-¼,ì—LCEøŠúCEÀ,íA-¼ø-¾,ì—LCEøŠúCEÀ,Æ“”,Ÿ“úŽž,É,È,è,Ü,·B

,±,ifwfv ID ,δ□□œ,μ,Û,·□B

∅-¾,ª"∫s,³,ê,Ä,ç,éĈÂ∫I,Û,½,í%oiŽĐ,ì-¼'O,đ•\Ž!,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,ìvf[]pfefB,ð•īX,μ,½,èA<-%oÂ,³,ê,Ä,ç,é-Ú“l,ì^ê——  
,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

∅=¼,δ<”Ù,·,é,É,íA,±,ìf{f^f”,δfNfŠfbfN,μ,Û,·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—LCE∅,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□ACEöŠ]fL□[fZfLf...fŠfefB,ĂŽg—p,<sup>3</sup>,è,éfl□[,ìfyfA,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,·,éCEöŠ]fL□[,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,đÚ×,É•Ž!,μ,Û,·B

∅<sup>-3/4</sup>Žæ, èÁ, μ^ê—, ÉŠÜ, Ü, ê, éŽæ, èÁ, <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-¼,ÉŠÖ~A,·,éftfœf“fhfŠ-¼,ð•\Ži,μ,Ü,·□B

∅, É, Ñ, A, ·, é, à, ð, Ž, μ, Ü, ·, 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,ÍA,±,ìf{f^f“,ðfNfŠfbfN,μ,Û,·B



□□-¼□|,ì-¼'O,đ•\Ž|,μ,Û,-□B

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

ft@fCf<,ª□□-¼,³,ê,½“úŽž,ð•\Ž!,µ,Û,·□B

□□-¼, ÅŽQ□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,ıA,±,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", ð Nf ŠfbfN, 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,Ü,·∅B

ffBfXfNā,ìftj@fCf<,©,ç∅-¾,đfCf“f[]fg,·,é,É,ÍA,±,ìf{f^f“,đNfŠfbfN,μ,Û,·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,ª"∫s,³,ê,Ä,ç,éĈÂ∫I,Û,½,í%oiŽĐ,ì-¼'O,đ•\Ž!,μ,Û,·∫B

∅<sup>-3/4</sup>,đ"∫s,μ,½∅<sup>-3/4</sup>@ŠÖ,ì-¼'O,đ•\Žì,μ,Ü,·∫B

□∅-¾,ì—LÆøŠúÆÀ,ø•\Ž!,μ,Ü,·□B

□Ø-¾,ì-Ú“l,δ•\Žl,μ,Û,·□B

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

∅-¾,ª"∫s,³,ê,Ä,ç,éĚÂ∫I,Û,½,í%oiŽĐ,ì-¼'O,đ•\Ž!,μ,Û,·∫B

∅<sup>-3/4</sup>,đ"∫s,μ,½∅<sup>-3/4</sup>@ŠÖ,ì-¼'O,đ•\Žì,μ,Ü,·∫B

□∅-¾,ì—LŒøŠúŒĀ,đ•\Ž!,μ,Ů,·□B



□Ø-¾,ì-Ú“l,δ•\Žl,μ,Û,·□B

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

"FŽ̄, μ, Ä, ç, é, ·, ×, Ä, ð, Ø-¾-Ú"l, ð^ê—, ð•\Ž̄l, μ, Ü, ·B'í%ž, ·, éf`fFbfN f{fbfNfX, ðfif", É, ·, é, ±, Æ, É, æ, Ä, ÄA-Ú"l, ð "Ú×" , Æ, μ, ÄŽw'è, Ä, <, Ü, ·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<Œ`Ž®,\Žì,μ,Û,·BDER Encoded Binary X.509 ,íA'P^è,ìø-¾,øfGfNfXf|  
[]fg,·,é,ì,É"K,μ,Ä,†,éfofCfifŠŒ`Ž®,Á,·BBase64 Encoded X.509 ,íAø-¾,ø Windows ^ÉŠO,ìfRf"fsf...  
[]f^,É'—M,·,é,Æ,«,ÉŒø%oÉ"l,ÈADER fGf"FR[]fhø-¾,ìefLfXfg·\Žì,Á,·BPKCS #7  
Œ`Ž®ftf@fCf<,øŽg—p,·,é,ÆAø-¾fpfX"à,ì,·,x,Ä,ìø-¾,øfGfNfXf|[]fg,Á,«,Û,·B

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