

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

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^ê—,É,í□ACEĀ□l,ì\ftfgfEjFfA”□sŽÒ,Æ□x<Æ“l,È\ftfgfEjFfA”□sŽÒ,ì—¼•û,ªŠÜ,Ü,ê,Ü,·□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,«,Ü,·□B
,Ü,½□A,±,ì^ê—,É,í□A”F□Ø,ì”□sCE³,àŠÜ,Ü,ê,Ü,·□BCEö□Ø□l,Æ”˘,¶,æ,x,É□A”F□Ø,ì”□sCE³,í□A\ftfgfEjFfA”-
□sŽÒ,ì□gCE³,ð□Ø-¾,,é,±,Æ,ðfWfjX,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,Ü,·□B,Ü,½□A,»,”□sŽÒ,ì\ftfgfEjFfA,í□AŠm”F,ìf_cjAf□fo f{fbjNfX,ð•\Žì,¹,,ÉfCf“fXfg□lf<,,é,±,Æ,ª,Ā,«,Ü,·□B

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

□×<Æ“l,Èf\ftfgfEjFfA”□sŽÒ,í□A\ftfgfEjFfA,ì□»‘ç,â”ì”„,ðfjWfjX,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□fO f{fbfNfX,ð•\Žl,¹,.,ÉfCj“fXfg□lf<,·,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•%o, ±, Æ, É, È, è, Ü, ·, ðAfffWf^f<□□-¼, à" —l, Å, ·□B□Å, à□M—Š, Å, «, éfffWf^f<□□-¼, íA□□-¼ŽÒ, ð- {□l, Å, , é, ±, Æ, ð•Ü□Ø, µ, Ü, ·□B

fffWf^f<□□-¼, íA" äŠr" l□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,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 ,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,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∆,±,}f^f“,đfNfŠbfN,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—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□ACEöŠjfl□[fZfLf...fŠfefB,ĂŽg—p,³,è,éfl□[,lfyfA,ì,κ,¿□A"é-š,É,³,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»,³,è,½f□fbfZ□[fW,đ•œ□t,·,é,Æ,«,ÉŽg—p,³,è,Û,·□B

^È%º,É•\Ž,³,ê,Ä,ç,é X.509 ftjB□[f<fh,Ü,½,ÍŠg'£Žq,ì^ê—,ìŒ»□Ý,ì'l,đ•\Ž,μ,Ü,·□B^ê—,ì^ê•",đ•\Ž,·,é,±,Æ,đ'l'đ,Ä,«,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 ftB [f<fh AŠg' £Žq A, ", æ, ÑŠÖ~ Afvf [fpfefB, ì^è—, ð·Ž!, μ, Ü, · B
-  X.509 Version 1 ftB [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,ð•\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,î^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

ø-¾žæ,èÁ,μ^è—,ÉŠÜ,Ü,é,éžæ,èÁ,³,è,½ø-¾,ì^è—,ð•ž!,μ,Ü,·B

'l'δ,³,ê,½∅-¾,δÚ×,É•Ž!,μ,Ü,·B

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

□Ø-¾,ÉŠÖ~A,·,éftfœf“fhfŠ-¼,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,Í∅A,±,ìf{f^f“,ðfNfŠfbfN,μ,Û,·∅B

□□-¼□|,ì-¼'O,đ•\Ž|,μ,Û,-□B

□□-¼□l,ì“dŽqf□□[f< fAfhfCEfX,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

, : , x , Ä , Ì • > □ □ , Ì ^ ê — — , ð • \ Ž ! , 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,±,}f{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 ×, ð • Ž, , é, É, í A, ±, ð {f^f", ð Nf ŠfbfN, μ, Ü, · B

'l'đ,Ā,«,é∅^{-3/4},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

ffBfXfNã,ìftj@fCf<,©,ç∅-¾,ðfCf“fllfg,·,é,É,ÍA,±,ìf{f^f“,ðNfŠfbfN,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'đ,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

∅^{-3/4},đ"∫s,μ,½∅^{-3/4}@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

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

□∅-¾,ì—LŒøŠúŒĀ,đ•\Ž!,μ,Ů,·□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'î%ž,·,éj`fFbfN f{fbfNfX,ðfjf",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,³,é,éAŠù'è,ìftf@fCf<CE`Ž®,\Žì,μ,Û,·BDER Encoded Binary X.509 ,íA'P^è,ìø-¾,øfGfNfXf|
[]fg,·,é,ì,É"K,μ,Ä,†,éfofCfifŠCE`Ž®,Á,·BBase64 Encoded X.509 ,íAø-¾,ø Windows ^ÉŠO,ìfRf"fsf...
[]f^,É'—M,·,é,Æ,«,ÉCEø%oÉ"l,ÈADER fGf"FR[]fhø-¾,ìefLfXfg·\Žì,Á,·BPKCS #7
CE`Ž®ftf@fCf<,øŽg—p,·,é,ÆAø-¾fpfX"à,ì,·,x,Ä,ìø-¾,øfGfNfXf|[]fg,Á,«,Û,·B

fhf%ofbfO fAf"fh fhf□fbfv,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†,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'đ,¹,,Éf_CfAf□fO f{fbfNfX,đ•Â,¶,é,É,í□A,±,}f{f^f“,đfNfŠfbfN,μ,Ü,·□B

Active Directory ,ÉĈöŠJ,³,ê,Ä,ç,é∅-¾<@ŠÖ,î^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

