

f_fCf,,f<fAfbfv flfbfgf[]fN,İŞT—v

f_fCf,,f<fAfbfv flfbfgf[]fN,İAWindows NT fŞf,[]fg fAfNfZfX fT[]fjfX (RAS) ,İfNf%ofCfAf“fg”Å,Å,·[]B

f_fCf,,f<fAfbfv flfbfgf[]fN,đŽg,æ,Æ[]AŽ©‘î,âzfef<,È,Ç[]Af,fff€,đ[]Ú‘±,Å,«,é“d~b

%oňü,İfWfffbfN,Æ“dCE¹fRf“fZf“fg,ª, ,éfŞf,[]fg fTfCfg,È,ç,ç,±,©,ç,Å,àfİtfBfX,İfİfbfgf[]fN,É[]Ú‘±,·,é,±,Æ,ª,Å,«,Ü,·[]Bf_fCf,,f<fAfbfv flfbfgf[]fN,İ[]Af_fCf,,f<fAfbfv

fT[]fo[],đCEÄ,Ñ[]o,µ[]Afİfbfgf[]fN,Æ,İ“d~b[]Ú‘±,đŠm—š,·,é,±,Æ,É,æ,Á,Ä<@“\,µ,Ü,·[]B,ç,Á,½,ñ[]Ú‘±,ªŠm—š,³,è,½,ç[]AfİtfBfX“à,Åfİfbfgf[]fN,âf[]fj< f[]f^fx[]fX,Æ‘¼[]Ú‘±,µ,Ä,ç,é,Æ,«,Æ,Ü,Á,½,-

“~,¶,æ,æ,ÉfAfvfŞfP[]fVf#f“,đŽÄ[]s,µ[]A[]i<Æ,·,é,±,Æ,ª,Å,«,Ü,·[]B

,½,Æ,İ,İ[]AŽÿ,İ,æ,æ,È,±,Æ,ª,Å,«,Ü,·[]B

- Windows NT fGfNfXfvf[]f%o,đŽg,Á,ÄfŞf,[]fg f[]f^fx[]fX,ÉfAfNfZfX,Å,«,Ü,·[]B
- “dŽqf[]f<,đ—Žó[]M,Å,«,Ü,·[]B
- fİtfBfX,İfvfŞf“f^,Äftf@fCf<,đ^ó[]ü,Å,«,Ü,·[]B

f_fCf,,f<fAfbfv flfbfgf[]fN fNf%ofCfAf“fg,İATCP/IP[]AIPX[]ANetBEUI ,İ,ç,·,è,©,đŽg,ç[]Af,fff€[]AISDN

%oňü[]AX.25[]APPTP ,İ,ç,·,è,©,đ%oi,µ,Ä[]A, ,ç,ä,é SLIP fT[]fo[][]APPP fT[]fo[][]A,“,æ,Ñ Microsoft RAS fT[]fo[],É[]Ú‘±,Å,«,Ü,·[]B

Macintosh f{fŞf...[]f€,“,æ,Ñ AppleTalk fvfŞf“f^,Ö,İf_fCf,,f<fCf“%oňü,đ%oi,µ,½[]Ú‘±,İfTf[]fg,³,è,Ä,ç,Ü,¹,ñ[]B

œ»Ÿ,ì“d~b’ ,É“o~^,³,ê,Ä,ç,é,; ,x,Ä,ìfGf“fgfŠ,ì^è—,Ä,·BfGf“fgfŠ,ð‘I’ð,μAŽŸ,É [f_fCf,,f<]
,ðfNfŠfbfN,μ,Ä,,¾,³,çB,Ü,½A[,» ,ì‘¼]
,ðfNfŠfbfN,·,é,ÆA fGf“fgfŠ,ì•ÖW A•;i»Aíœ,È,Ç,ª,Ä,« ,Ü,·B
Šù’è,ì“d~b’ ,íAfvfXfef€“d~b’ (rasphone.pbk) ,Ä,·B,Ü,©,ì“d~b’ ,ðŠù’è,ì“d~b’ ,É,·,é,É,íA[,» ,ì‘¼]
,ðfNfŠfbfN,μA[ft[fU[Ÿè] ,ðfNfŠfbfN,μ,Ü,·BŽŸ,ÉA[“d~b’] f^fu,ÄACEÂ|—
p“d~b’ ,Ü,½,í,» ,ì‘¼,ì“d~b’ ,ð‘I’ð,μ,Ü,·B

“d~b’ ,ÉfGf“fgfŠ,đ’Ç%Á,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

fGf“fgfŠ,ì•ÒW□A□í□œ□A•;□»„È,Ç,đ□s,ƣfRf}f“fh,đ•\Ž!,·,é,Æ,«„ÉfNfŠfbfN,μ,Û,·□B

f_fCf,,f<,³,ê,é"Ô□t,ª□A□Ú"ª"Ô□t□A□Ú"ö"Ô□t,àšÜ,ß,Ä□Af_fCf,,f<,³,ê,é,Æ,¨,è,É•\Ž!,³,ê,Ü,·□B"Ô□t,ì•\Ž!•ù-
@,đ•ĭ□X,μ,½,è□A^êŽž"l,ÉfGf"fgfŠ,ÉŠÖ~A•t,¯,ç,ê,Ä,ç
,é"Ô□t^ÈŠO,ì"Ô□t,Éf_fCf,,f<,·,é,½,ß,É□V,μ,ç"Ô□t,đf{fbfNfX,É"ü—í,μ,½,è,·,é,É,í□A[□Š□Ý'n]
,đfNfŠfbfN,μ,Ü,·□B

,Ç,ìŠŸ'n,©,çf_Cf,,f<,:é,©,ðŽw'è,μ,Û,·B

f%ofbfvfgfbfv fRf"fsf...[f^,ðŽg,Á,Ä,ç,éê±,íAflftfBfXAZ©'íAfzfej<,È,Ç,ì,³,Û,´,Û,ÈŠŸ'n,É,Á,ç
,ÄAfvfjpfefB,ðŸ'è,μ,Ä,¨,±,Æ,ª,Ä,«,Û,·B,±,π,μ,Ä,¨,´,íAŠŸ'n,ìŸ'è,ðŠî,ÉAZsŠO<Ç"Ô,â,»,±,ÄŽg—
p,Ä,«,é'É~bfj[fh"Ô†,ðf_Cf,,f<,:é,æ,π,É"d~b' fGf"fgfŠ,ðffXf^f}fCfY,Ä,«,Û,·B

'l'đ,μ,½ŠŸ'n,lfvf[]pfefB,đ•İX,;é,Æ,«,âA[]V,μ,čŠŸ'n,đ[]-;é,Æ,«,ÉfNfŠfbfN,μ,Ü,·B
,±,lf{f^f",đfNfŠfbfN,μ,½,Æ,«,É•\Ž!,³,ê,éf_fCfAf[]fO f{fbfNfX,íA[Šî-{} f^fu,ì
[fefCEftfHfj[] f_fCf,,f<,lfvf[]pfefB,đŽg,±] f`fFfbfN f{fbfNfX,đfif",É,μ,Ä,č,é,©,Ç,±
,©,É,æ,è•í,í,Á,Ä,«,Ü,·BSù'è,ìŸ'è,Ä,íA,±,lf`fFfbfN f{fbfNfX,ífift,É,É,Ä,Ä,"èA<CEfo[]fWf#f",ì RAS
,Ä,àŽg,í,é,Ä,č,½ [Ü"à"Ö[]+] f{fbfNfX,Æ [Ü"ö"Ö[]+] f{fbfNfX,đ-~—p,Ä,«,Ü,·B
fefCEftfHfj[].lf_fCf,,f<@"\,đŽg,±ê[]#,íA,±,lf`fFfbfN f{fbfNfX,đfif",É,μ,Ä,,¾,¾,č[]B,±,ì<@"\,đŽg,±%oÄ"\
[]<,ª, ,é,ì,íA'<—£'Ê~b,đŽg,±ê[]#,âAfNfCEfWfbfg fj[]fh,đŽg,±ê[]#,Ä,·B

[f_fCf,,f<,·,é“d~b’ fGf“fgfŠ] f{fbfNfX,Å‘l’ð,³,ê,Ä,ç,é“d~b’ fGf“fgfŠ,Éf_fCf,,f<,·,é,Æ,«,ÉfNfŠfbfN,μ,Û,·□B

f_CfAfO f{fbNfX,đ•Â,ŋ,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·B

f_fCf,,f< ,.éfgf"fgfŠ,ì-¼'O (%oĩŽĐ-¼AfT[fó[-¼,È,Ç) ,đ"ü—í,μ,Û,·B1 ,©,ç 256
•¶Žš,Û,Ä,ì"í"à,Ā, ,è,î,Ç,ì,æ,π,È-¼'O,đ•t,̄,Ā,à,©,Û,ç,Û,¹,ñB'Éí,íAfŠf,[]fg fT[fó[,ì-
¼'O,©A,Û,½,íÚ'±,ìŽí—p ("PPP fCf"f^[]fifbfgÚ'±"A"SLIP fCf"f^[]fifbfgÚ'±" ,È,Ç) ,đ•t,̄,Û,·B
,±,ì-¼'O,íA"d~b' ,ì^ê—,É•\Ž,³,è,Û,·B

fGf“fgfŠ,ÉŠÖ,·,éŠo,i□‘,«,đ“ü—í,·,é□é□Š,Å,·□B%º½,à“ü—í,μ,È,,Ä,à,©,Ü,ç,Ü,¹,ñ□B

f_fCf,,f<æ,îf_fCf,,f<fAfbfv fT[]fo[]L,ì""Ô[]t,ð'l,Ñ,Ü,:[]B

f_fCf,,f<æ,lf_fCf,,f<fAfbfv fT[]fo[]l,žsŠO<Ç"Ô,đ"ü—í,μ,Û,·B

f_fCf,,f<fAfbfv fT[]fo[]l,ª"ú-{[]ŠO,É, ,é[]ê[]‡,í[]A,±,±,É,í[]æ"ª,ì 0 ,đŠÛ,Û, ,ÉŽsŠO<Ç"Ô,đ"ü—í,μ,Ä,-
,¾,¾,ç[]B,½,Æ,!,í[]AŽsŠO<Ç"Ô,ª 071 ,í[]ê[]‡,í[]A71 ,Æ,¾,~"ü—í,μ,Û,·B

f_fCf,,fAfbfv fT[fo[,"d~b"Ôt,đ"ü—í,μ,Ü,·B,±,±,ÅŽw'è,Å,«,é"ÁŽè,È•ŋŽš,É,Â,ç
,Ä,íA"d~b"Ôt,ìCüžqv,đŽQÆ,μ,Ä,,¾,¾,çB

,±,ìfGf"fgfŠ,ÉŽg,π 2 ,Â-Ú^È~ ,ì"d~b"Ô+ ,đ'Ç%oÁ, ,é,Æ,«,ÉfNfŠfbfN,μ,Û,·B1 ,Â-Ú,ì"d~b"Ô+ ,ÂÚ'±
,Â,«,È,©,Á,½é±,íAÚ'±,³í,ÉŠm—š,Â,«,é,Û,Â 2 ,Â-Ú^È~ ,ì"d~b"Ô+ ,±,Éf_fCf,,f<,³,ê,Û,·B

f_fCf,,f<,ÉŽg,κ'•'u,δ'ı'δ,μ,Ü,·□B[frfW□[□ó'Ô,ı,Æ,«,ı•Ê,ıf□[fg,đŽg,κ] f`fFbfN f{fbfNfX,đfıf“,É,μ,Ä,“,-
,Æ□A,±,±,Ä'ı'δ,μ,½'•'u,Ä,ı□Ú'±,ÉŽ,“s,μ,½,Æ,«,ı□A“~,ıŽı—p,ı,Ü,©,ı'•'u,đŽg,Ä,Ä□Ú'±,ªŽŽ,Ý,ç,è,Ü,·□B
[f_fCf,,f<•û-@] f{fbfNfX,Ä,ı□Af_fCf,,f<,É•ı□”ı%ñ□ü,đŽg,κ,æ,κ,É'ı'δ,·,é,±
,Æ,à,Ä,«,Ü,·□B•ı□”%ñ□ü,δ'ı'δ,·,é,Æ□A•ı□”ı•”—□“ı,È%ñ□ü,đ~—□“ı,È 1 ,Ä,ı “©”
,ÉÆ<□‡,·,éf}f<f`fŠf“fN<@“\,ªŽg,ı,è,Ü,·□B,±,ı<@“\,Ä,ı□A1 -{,ı•ı□‡fŠf“fN,đ□ı□-,·,é,±
,Æ,É,æ,è□A'Ñ^æ•□,ª'□%Á,μ,Ü,·□B
f}f<f`fŠf“fN,đŽg,κ,É,ı□AfNf%ofCfAf“fg,ÆfT□[fo□[ı,ı—¼•û,Äf}f<f`fŠf“fN<@“\,ª—LCEø,É,È,Ä,Ä,ç
,È,~,è,ı,È,è,Ü,ı,ñ□B
□Ú'±,ÉŽg,κf,fff€,âfAf_fvf^,δ'ı,Ô,É,ı□A[□\□-] ,đfNfŠfbfN,μ,Ü,·□B

'•'uCEÅ—L,ì□Ý'è,ð□\□¬,;é,Æ,«,ÉfNfŠfbfN,μ,Û,·□B,½,Æ,ì,Î□A□Ú'±,Éf,fff€;ðŽg,¼□ê□‡,Í□A,±,±,ðfNfŠfbfN,μ,Ä□Af,fff€,ì'É□M'¬“x,ð□Ý'è,μ,½,è□Af,fff€^3□k<@“\,ð—LCEø,É,μ,½,è,Å,«,Û,·□B

, ±, ĩf` fFfbfN f{fbfNfX, íAfeſĈeftfHfj[] , ĩf_fCf,, f<<@“\, đŽg, Ɂ, Æ, «, Éfıf“, É, μ, Ü, ·□B, ±, ì<@“\, í□A’<<—
£’É~b, Å□Ú’ ±, ·, é□é□‡, â□AfNfĈefWfbfg fj□[fh, đŽg, Ɂ□é□‡, É•Ö—~ , Å, ·□B, ±, ĩf` fFfbfN
f{fbfNfX, đfıf“, É, ·, é, Æ□A[f_fCf,, f:fAfbfv flfbfgf□□[fN] fEfBf“fhfE, ì [□Š□Ý’n]
, đNfŠfbfN, μ, ½, Æ, «, É□AfeſĈeftfHfj[] [—p, ĩfvf□fpfefB fy□[fW, º•Ž!, ³, ê, Ü, ·□B, ±, ĩf` fFfbfN
f{fbfNfX, đfıft, É, ·, é, Æ□A<Ĉfo□[fWf‡f“, ì RAS , Å, àŽg, í, ê, Ä, ċ, ½ [□Ú“º”Ô□†] f{fbfNfX, Æ [□Ú”ö”Ô□†]
f{fbfNfX, º•Ž!, ³, ê, Ü, ·□B
“à□ü, Éf_fCf,, f<, ·, é□é□‡, í□A, ±, ĩf` fFfbfN f{fbfNfX, ĩfıf“, É, μ, È, ċ, Å, , ¾, ³, ċ□B

f_fCf,,f<fAfbfv fT[]fo[][,iŽí—p,đ'í'đ,μ,Ü,·□BfT[]fo[][,iŽí—p,đ,í,©,ç,È,ç□é□‡,í□A[PPP] ,đ'í,ň,Ā,,¾,¾,ç□BSLIP
fT[]fo[][,đĀ,Ñ□o,·□é□‡,í□A[SLIP] ,đ'í,ň,Ā,,¾,¾,ç□B<Āfo[]fWf‡f“ ,ì RAS fvf□fgfRf<,đŽg,Ā,Ā,ç
,éfT[]fo[][,Éf_fCf,,f<,·.é□é□‡,í□A[RAS] ,đ'í,ň,Ā,,¾,¾,ç□B
,±,±,Ā'í'đ,μ,½fT[]fo[][,iŽí—p,É,æ,Ā,Ā,í□A[fT[]fo[][]
f^fu,lfvf□fgfRf<,â,» ,ì'¼,lfvfVf‡f“ ,ì^è•” ,đ'í'đ,Ā,« ,È,ç□é□‡,à , ,è,Ü,·□B

[f]bfgf[]fN fvf[]fgfRf<] ,Å'í'ð,·,évf[]fgfRf<,í[]Af_fCf,,f<fAfbfv fT[]fo[][,Æ,ì[]Ú'±,ªŠm—§,³,è,½CEã[]ALAN
[]ä,ìŠeŽifT[]fo[][,Æ'É[]M,·,é,Æ,«,ÉŽg,xfvf[]fgfRf<,Å,·[]B,Ç,ìfvf[]fgfRf<,ð'í'ð,·,é,x,«,©,í,©,ç,É,ç,ç[]ê[]#,í[]Af]b
fgf[]fNŠÇ—[]ŽÒ,É-â,ç[]#,í,¹,Ä,,³/₄,³,ç[]B

,±,±,Å,í[]A·;[]",ìfvf[]fgfRf<,ð'í'ð,·,é,±,Æ,à,Å,«,Ü,·[]BŠù,ÉfRf"fsf...[]f^,ÉfCf"fxfg[]f<,³,è,Ä,ç
,évf[]fgfRf<,ìf`ffbfN f{fbfNfX,í[]ASù'è,ì[]Ý'è,Åf]f",É,È,Á,Ä,ç,Ü,·[]B

TCP/IP (Transmission Control Protocol/Internet Protocol) " " — äfvf/fCf“f^[]fjfbfg
fvf[]fgfRf<) , íACEY, ç, ÉÚ'±,³,ê,½fjfbfg[][]fNŠÖ,Å,ì'É[]M,ð'ň<ÿ,·,éjfbfg[][]fN fv[]fgfRf<,Å,·[]B
TCP/IP ,í[]Afcf“f^[]fjfbfg,ÅŽg,í,ê,éjfbfg[][]fN fv[]fgfRf< fZfbfg,Å,·[]B

Novell , ĩfjfbfgf□□[fN, ĀŽg, í, ê, é NetWare fv□fgfRf< fZfbfg, Ā, ·□B

NetBEUI, í Microsoft fíbfjgíííN—p,ÉŠj”,³,ê,½fíbfjgíííN fvfífgfRf<,Á,·B,±,ífvfífgfRf<,íANetBIOS
<KŠi,đŽÀ•,μ,½fíbfjgíííN Microsoft “Á,Á,·B

,±,ì“d~b’ fGf“fgfŠ—p,ì TCP/IP ,ìÝ’è’l,ðÝ’è,·,é,Æ,«,ÉfNfŠfbfN,μ,Û,·BMicrosoft fT[]fo[] (Windows NT[]AWindows 95[]A,Û,½,í,»,’¼,ì Microsoft RAS fT[]fo[]() ,ðÆÄ,Ño,·ê[]#,í[]ATCP/IP ,ìÝ’è’l,ð[]\ []-,·,é•K—v,í, ,è,Û,¹,ñ[]B

f_fCf,,f<fAfbfv flfbfgf□□[fN,Å,Í□Af,fff€É,æ,é^³□k,³fTf|□[fg,³,é,Ä,ç,é,¾,¯,Å,È,□Af\
ftfgfEjfFA,É,æ,éff□[f^³□k,ì<@“\,à’ñ<ÿ,³,é,Ä,ç,Ü,·□B,±,ì,½,ß□AfXf<□[fvfbfg,ðCEü□ã,³,¹,é-Ú“l,Å^³□k<@“\
,đŽg,¤□ê□‡,Í□Af,fff€^³□k,đfif“,É,·,é•K—v,í, ,è,Ü,¹,ñ□B
,±,ìf`fFfbfN f{fbfNfX,đfif“,É,·,é,Æ□Af\ftfgfEjfFA^³□k,ª—LCEø,É,È,è,Ü,·□B
□Å’å,ì^³□kCEø—¡,đ“¾,é,½,ß,É□,„§,·,éŽ-□€,É,Â,ç,Ä,Í□A□u^³□k,ÉŠÖ,·,éŽw□j□v,đŽQ□Æ,µ,Ä,,¾,³,ç□B

,±,İf`fFfbfN f{fbfNfX,đflf“,É,·,é,Æ□APPP ,ì□V<@“\,ª—LCEø,É,È,è,Û,·□B,±,è,ç,İŠg’f<@“\,đŽg,α,Æ□ACEĀ,ç
PPP f\ftfgfEfffA,đŽg,Á,Ā,ç,éft□[fo□[,ðCEĀ,Ñ□o,μ,½,Æ,«,É-â’è,ª”□¶,·,é%oĀ”\□«,ª, ,è,Û,·□BCEp’±,μ,Ā-
â’è,ª”□¶,·,é□ê□‡,É,¾,~□A,±,İf`fFfbfN f{fbfNfX,đflft,É,μ,Ā,,¾,³,ç□B
 ,±,İf`fFfbfN f{fbfNfX,đflft,É,·,é,Æ□ALCP ,í□APPP ,ì LCP flfSfVfG□[fVf‡f“,É,“,̄,é Time-Remaining
fpfPfbfg,Æ Identification fpfPfbfg,ì—□M□A,“,æ,ÑfR□[f<fofbfN—v□,đ□s,í,È,,È,è,Û,·□B

f_fCf,,f<Æä,ÉfXfNfŠfvg,àf^[]f~fif<,àŽg,í,È,ç[]ê[]‡,Í[]A,±,ìf|fvfVf‡f“,đ'í'đ,μ,Û,·[]B

f_fCf,,f<CEä,Éf^[]f~fif< fEfBf“fhfE,ðŽg,æ[]ê[]‡,í[]A,±,ìfifvfVf‡f“,ð'!‘ð,μ,Û,·[]B
[]ufŠf.[][fg_f[]Ofif“,É RAS f^[]f~fif<ðŽg,æ[]v,ðŽQ[]Æ,μ,Ä,,¾,¾,¾,ç[]B

f_fCf,,f<CEă,ÉfXfNfŠfvfg,đŽg,æ□ê□#,Í□A,±,ìf|fvfVf#f“,đ'í'đ,μ,Û,·□B

f_fCf,,f<CEã,ÉŽg,xfXfNfŠfvg,đ'ı'đ,μ,Ü,·□B,±,±,Å'ı'đ,Å,«,éfxfnfšfvg,í□ASWITCH.INF “à,É<L□q,³,é,Ä,ç
,éfxfnfšfvg,Å,·□BSWITCH.INF
,đ•Ò□W,·,é,Î□ASù'¶,ìfxfnfšfvg,đ□C□³,μ,½,è□A□V,μ,çfxfnfšfvg,đ□ì□¬,μ,½,è,Å,«,Ü,·□B
□uSWITCH.INF fxfnfšfvg,đŽg,Á,ÄfŠf,□[fg_f□fOfif“,đŽ©“@%o»,·,é□v,đŽQ□Æ,μ,Ä,,³/₄,³,ç□B

Šù'¶,ìfXfNfŠfvg,đ•Ò□W,μ,½,è□A□V,μ,çfXfNfŠfvg,đì□¬,μ,½,è,·,é,½,ß,É SWITCH.INF ,đŠJ,-
,Æ,«,ÉfNfŠfbfN,μ,Û,·□B

SWITCH.INF ,đ•Ò□W,μ,½CEã□AfXfNfŠfvg,ì^ê—,đ□X□V,·,é,½,ß,ÉfNfŠfbfN,μ,Û,·□B

f_fCf,,f' O,ÉfXfNfŠfvfg,đŽg,ϣéϣ,ÉfNfŠfbfN,μ,Ü,·B,½,Æ,ı,îAf_fCf,,f' O,İfXfNfŠfvfg,ÍAfNf%ofCfAf"fg'ϣ
,ÉY'u,³,ê,Ä,ç,é'†%ôî'•u,đŽg,ϣéϣ,É,Ç,É•K—v,É,È,è,Ü,·B

f_fCf,,fAfbfv fT[fO[.,Æs,κ" F∅,Æ^ Ā+%%»,)fSfVfG[fVf+f", ĀŽg,κE' '¥,đ'ı,Ô,±
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□,Ā,·B^ Ā+%%»,)đŸ'è,.,é,ÆA'ÊM%oňü,đŽg,Ā,Ā"]'—,³,ê,éff[f^,đ'æŽOŽÒ,^aŠĀŽ<,.,é,ı,đ-h,®,±
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%oňü,ðEo—R,μ,Ä'—M,³,ê,éff[f^,í,;,x,Ä^Ä+%%»³,ê,Ü,·B,±,ìfìfvfVf#f“,íAWindows NT Version 3.5
^Ê~,ì RAS fRf“fsf...[f^,Ä,ì,Ý—~—p,Ä,«,Ü,·BWindows NT RAS ,Ä,íAfff[f^,ì^Ä+%%»³,í RSA Data
Security Incorporated ŽĐ,ì RC4 fAf:fSfŠfYf€,ðŽg,Ä,Ä'ň<Ý³,ê,Ü,·B
,±,ìf`fFfbfN f{fbfNfX,ðfìf“,É,·,é,ÆA^Ä+%%»³,ê,Ä,ç,È,çÚ'±,íØ'f³,ê,Ü,·B

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^ê—,©,ç“d~b’ ,đ’l’đ,·,é,©□A,Ü,½,íŽg—p,·,é“d~b’ ,ì-¼’O,đŠ®‘S,ĚpfX,đ•t, ,Ä“ü—í,μ,Ü,·□B
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,±,lfRf“fsf...[f^ã,ì“d~b’ ,ðŒŸö,μ,½,èA,Ù,©,lfRf“fsf...[f^ã,ì“d~b’ ,ì^è—
,ðŒ©,½,è,·,é,Æ,«,ÉfNfŠfbfN,μ,Û,·B

ISDN [00]±,iŽí—p,ø'í'ð,μ,Ü,·□B'í'ðŽ^,í□A•iŽ_ì,à□,,çŽí—p ([64K fffWf^f<]) ,©,ç□‡,É□A•iŽ_ì,à'á,çŽí—p ([56K %o¹□°]) ,Ü,Ă, ,è,Ü,·□B

,±,lf`fFfbfN f{fbfNfX,ðflf“,É,·,é,Æ□A%oñü,ì□ó’Ô,É%ož,¶,Ä’l’ð,µ,½%oñü,ìŽí—p,©,ç’á,ç•iŽž,ì%oñüŽí—
p,Ö,lfSfVfG□[fVf†f“,à□s,í,è,Ü,·□B

’□ ISDN fj□[fh,É,æ,Á,Ä,í□A[%oñüŽí—p,lfSfVfG□[fVf†f“] f`fFfbfN f{fbfNfX,àflf“,É,È,Á,Ä,ç,é,Æ□A
%oñü,ìŽí—p,Æf`fffif<,i□“,ì—¼•ù,É,Á,ç,ÄflSfVfG□[fVf†f“,à□s,í,è,Ü,·□B,Á,Ü,è□A•iŽž,ì□,,ç%oñüŽí
—p ([64K fffWf^f<]) ,©,ç•iŽž,ì’á,ç%oñüŽí—p ([56K %o¹□²])
,Ö,lfSfVfG□[fVf†f“,à□s,í,è,é,¾,¯,Ä,È,□A•i□“,lf`fffif<,©,ç•K—v,É%ož,¶,Ä,æ,è□-
,È,çf`fffif<□“,Ö,lfSfVfG□[fVf†f“,à□s,í,è,Ü,·□B

f_fCf,,f<fCf“ ,·,é□æ,lfT□[fo□[,ª,» ,lf□□[f]□[CEÅ—L,lfvf□fgfRf<,μ,©fTf]□[fg,μ,Ä,ç,È,ç□ê□‡,Í□A,±,lf`fFfbfN
f{fbfNfX,ðf|f“ ,É,μ,Ü,·□B,½,Æ,¡,Í□AfT□[fo□[,ÆfNf%ofCfAf“ fg,ì—¼•û,Å DigiBoard ŽĐ,ì•‘u,ðŽg,Á,Ä,ç
,é□ê□‡,È,Ç,ªŠY“ -,μ,Ü,·□B

•;□“,ì ISDN %oñ□ü,ð%oî,μ,Äf}f<f`fŠf“fN,ðŽg,κ□ê□‡,Í□A,±,lf`fFfbfN f{fbfNfX,lf|ft,É,μ,Ä,-
,¾,³,ç□Bf}f<f`fŠf“fN,Á,Í□AfT□[fo□[,Ä,àfNf%ofCfAf“ fg,Ä,àf□□[f]□[CEÅ—L,lfvf□fgfRf<,Í•K—v, ,è,Ü,¹,ñ□B

,±,lf`fFfbfN f{fbfNfX,ðflf",É,·,é,Æ□Afff□f^,²'—□M'O,É^³□k,³,ê,Ü,·□Bfn□[fhfEfffA^³□k,ð—
LCEø,É,·,é□ê□#,í□AfvftfgfEfffA^³□k,íflft,É,μ,Ä,,³/4,³,ç□B

'□ fn□[fhfEfffA^³□k,í□A,·,x,Ä,ì ISDN fj□[fh,Ä'ñ<ÿ,³,ê,Ä,ç,é,í,¯,Ä,í, ,è,Ü,¹,ñ□B,±,lf`fFfbfN
f{fbfNfX,ðflf",É,μ,Ä,à□Afv□[fh,²^³□k<@"\,ð'ñ<ÿ,μ,Ä,ç
,É,¯,ê,í□Afff□f^,ífxf<□[fvfbfg,íCëü□ä,μ,Ü,¹,ñ□BŽg—p,μ,Ä,ç,éj□[fh,É^³□k<@"\,²•t,ç,Ä,ç,é,©,Ç,x
,©,²,í,©,ç,É,ç□ê□#,í□Afv□[fh,í}fjf...fAfv<,Ä²,x,Ä,,³/4,³,ç□B

Žg—p,μ,Ä,ç,éfj□[fh,ª•j□",ì ISDN f`fffff<,ð'©,Ë,ÄŽg,κ<@“\,ð'ñ<ÿ,μ,Ä,“,è□AfŠf,□[fg fAfNfZfX fT□[fo□[.ì
ISDN fj□[fh,àf`fffff<,ð'©,Ë,ÄŽg—p,Ä,«,é,æ,κ,É□□¬,³,ê,Ä,ç
,é□ê□‡,í□A•j□",ìf`fffff<,ð'ì'ð,μ,ÄfXf<□[fvfbfg,ðCEü□ã,·,é,±,Æ,ª,Ä,«,Ü,·□B□ufGf“fgfŠ,ì'Ç
‰Á□A•Ö□W□A•j□»,ð□s,κ□v,ì□uISDN ,ì“d~b”Ô□†□v,ðŽQ□Æ,μ,Ä,,¾,³,ç□B

ISDN fhf%ofCfo,É,æ,Á,Ä,í□A'©,Ë,éf`fffff<,ì□",ð□\$CEÀ,Ä,«,È,ç□ê□‡,à, ,è,Ü,·□Bf`fffff<□",ð□\$CEÀ,Ä,«,È,çfhf
%ofCfo,ðŽg,Á,Ä,ç,éfRf“fsf...□[f^,ð'...□M—p,É□□¬,μ,Ä,ç,é□ê□‡,í□Af`fffff<□",ìŽw'è,ð 2 ^È‰ª,É,·,é,æ,κ
,É□Af_fCf,,f<fCf“ ,·,éfNf%ofCfAf“fg,ÉŽwŽì,μ,Ä,,¾,³,ç□B,» ,κ,μ,È,ç,Æ□A•j□",ì ISDN
fj□[fh,ðfCf“fXfg□[f<,μ,½fvfXfef€ ,ðŽg,Á,Ä,ç,é†□[fU□[.ª□AfT□[fo□[.ìf`fffff<,ð,·,×,Ä“Æ□è,μ,Ä,μ,Ü,κ‰ª“\
□«,ª, ,è,Ü,·□B

'□ Žg—p,μ,Ä,ç,é ISDN fj□[fh,Ä—~—p‰ª“\,È□",æ,è'½,çf`fffff<□",Ä□Ú'±,ðŠm—š,·,é,±
,Æ,í,Ä,«,Ü,¹,ñ□BŽÀ□Ú,É□A—~—p‰ª“\,Éf`fffff<,ì□Ä'â□",ð' ,ì,é□",ðŽw'è,·,é,Æ□A,Ü,Ä,½,□Ú'±
,Ä,«,È,ç‰ª“\□« ,à, ,è,Ü,·□B

fCf“fXfg[f<, ³, è, Ä, ç, éf, fff€, a•\Ž!, ³, è, Ü, ·□B

'□ f, fff€, ð•İ□X, μ, ½, è□A□V, μ, çf, fff€, ðfCf“fXfg[f<, μ, ½, è, ·, é, É, Í□Afrf“fgf□□[f< fpf]f<, ì [flfbfgf□□[fn] fAfCfRf“, ðf_fuf<fNfŠfbfN, μ, Ü, ·□B[fT□[frfX] f^fu, Å□A[fŠf, □[fg fAfNfZfX fT□[frfX] , ð'! ð, μ□AŽŸ, É [fvf□fpfefB] , ðfNfŠfbfN, μ, Ü, ·□B□Ú□x, É, Ä, ç, Ä, Í□A, ±, ìf_fCfAf□fO f{fbfNfX, ìfif“f%ofCf“ fwf<fv, ðŽQ□Æ, μ, Ä, , ¾, ³, ç□B

f,ff€ ,afŠf, [fg fAfNfZfX fT [fo [l, ìf,ff€ ,Æ, ìfSfVfG [fVf+f“ ,đŠ)Žn, ,é,Æ, «, ì bps (frfbfg/•b)
'P^Ê, ì'ÊM' -“x,đ'ì'đ,μ,Ü, ·B'ÊM' -“x, í AfSfVfG [fVf+f“ ,ì%ß'ö, Å [ã, ¢, Á, ½, è%º, ¢, Á, ½, è, , é, ±, Æ, à, , è,
Ü, ·B

Žg—p,μ,Ä,ç,éj,ff€,ÅfTf|□[fg,³,ê,Ä,ç,È,çfn□[fhfEjFfA<@“\,ð‘ð,μ,Ä,àpftfH□[f}f“fX,É,í%½,ì%e<ç,à, ,è,Û
,¹,ñ□B

,±,ìf`fFfbfN f{fbfNfX,ðfif“ ,É,·,é,Æ□Afn□[fhfEfffA,É,æ,éfnf“fhfVffCfN,ª—LCEø,É,È,è,Ü,·□B,±,ì<@”\
,É,æ,è□Aff□[f^,ª,ç,Á,İ,ç,É,È,Á,Ä%ñ□ü,Éff□[f^,ð’—□M,Å,«,,È,Á,½,Æ,«,,â□A<t,É’—□M%oÅ”\
,É,È,Á,½,Æ,«,,É□Af,fff€,ªfŠf,□[fg fAfNfZfX fVftfgfEfffA,É”` ,ì,é,±,Æ,ª,Å,«,,é,æ,ª,É,È,è,Ü,·□B,±
,ê,É,æ,è□AfŠf,□[fg fAfNfZfX fVftfgfEfffA,í□A•K—v,É%ož,¶,Ä^èŽž”l,Éff□[f^,ì”]’—
,ð’+Ž~,Å,«,,Ü,·□Bfnf“fhfVffCfN,í□Aff□[f^,ì”`—,ð□‡—□%o»,μ□AfI□[fo□[f%of“ fGf%o□[,ì”□¶,ð-
h,®,½,β□ACE<%oÊ”l,Éff□[f^“]’—,ì’S’ì”l,ÈfXf<□[fvfbfg,ªCEü□ă,μ,Ü,·□B

ff[f^ fuf]fbfN,lfGf%o[,[,ð,,%oñ[ç'·CEŸ] (CRC) ,É,æ,Á,Ä'²,x,Ü,·[Bf,fff€É,æ,éfGf%o[[[§CEä,ð—
LCEø,É,·,é,Æ[Af,fff€,í³,μ,"]—,³,ê,È,©,Á,½ff[f^,ðÄ"]—,μ,Ü,·[B,μ,½,³,Á,Ä[Af,fff€ŠÔ,Ä,lfGf%o[[,í"-
[¶,μ,Ü,¹,ñ[BÚ×,É,Â,ç,Ä,Í[AuMNP4v, ",æ,Ñ[uV.42v,ðŽQ[Æ,μ,Ä,,³/4,³,ç[B

,±,lf fFbfN f{fbfNfX,ðflf“,É,·,é,Æ□Af,fff€ŠÔ,Ā‘—Žó□M,³,é,éff□[f^,ª³□k,³,é,Ā□A“]’—
,³,é,éff□[f^,lfCfG□“,ª□,È,,È,è,Û,·□B,±,ìĀ<%oĒ□A“]’—ŽžŠÔ,ð‘Z□k,μ,Û,·□B,Ç,ì‘ö“x’Z□k,³,é,é,©,í□A“]’—
,³,é,éff□[f^,ì□ç‘“x,É,æ,Ā,ĀĀĀ^,Û,è,Û,·□B

‘□ f,fff€,æ,è,àfRf“fsf...□[f^,ì•û,ª—~—p%oĀ“\,Èfjpf^□[f“ fofbftf@,ª,í,é,©,É‘â,«,ç
,½,ß□Afn□[fhfEjFfA^³□k,æ,è,àf\ftfgfEjFfA^³□k,ì•û,ªĀø—!‘Ī,·□B,Û,½□Af,fff€,ì^³□k<@“\,ðŽg,κ
,Æ□Af,fff€,í□A“à•“,lfjpf^□[f“ fofbftf@,ð-,,ß,é,¾,¯,ì—È,iff□[f^,ªfRf“fsf...□[f^,©,çf,fff€,Ö“]’—
,³,é,é,Û,Ā□Ā□%o,ì“]’—,ð□s,í,·□A‘x%o,,,ª“□Ī,μ,Û,·□Bf\ftfgfEjFfA^³□k,Ā,í□A^³□k,ì,½,ß,iff□[f^“]’—
,lfRf“fsf...□[f^,Æf□f,fs,ìŠÔ,Ā□s,í,è,Û,·,ª□A,±,ì‘—“x,lfRf“fsf...□[f^,Æf,fff€
,ìŠÔ,Ā,ì“]’—‘—“x,æ,è,,Ā,Æ□,‘—,Ā,·□B,³,ç,É□Af\ftfgfEjFfA^³□k,Ā,í□Af,fff€,Æf,fff€
,ìŠÔ,lfZfOf□f“fg,¾,¯,Ā,í,È,□AfRf“fsf...□[f^ŠÔ,lfŠf“fN‘S‘ì,ð^³□k,³,é,½ff□[f^,ª“]’—,³,é,é,±
,Æ,É,È,è,Û,·□B

^ê”É,É□AŠÛ,É^³□k,³,é,Ā,ç,éff□[f^,ð^³□k,μ,Ā,à□A^³□k—!,ª□,Û,é,±,Æ,í,·,è,Û,¹,ñ□B,μ,½,ª,Ā,Ā□Af,fff€
,ì^³□k<@“\,Æf\ftfgfEjFfA^³□k,ð”~Žž,ÉŽg—p,·,x,«,Ā,í,·,è,Û,¹,ñ□BŽĀ□Û,É□Af,fff€,ªŽg,xfAf<fSfŠfYf€
,É,æ,Ā,Ā,í□A—¼•û,ì^³□k,ð□s,κ,Æ□A“]’—,³,é,éff□[f^,lfTfCfY,ª‘â,«,,È,é□é□‡,à,·,è,Û,·□B

f_fCf,,f<Žž,É□AfXfNfŠfVfg%»»,³,ê,½fRf}}f“fh,ðŽÀ□s,·,é‘ă,í,è,É AT fRf}}f“fh,ðŽè“ @,Åf,fff€,É“ü—
Í,·,é□ê□‡,Í□A,±,ìf fFfbfN f{fbfNfX,ðflf“,É,μ,Ü,·□B,±,ì<@“\,Í□Af,fff€,ìfXfNfŠfVfg ftj@fCf< (MODEM.INF)
,É□V,μ,čfGf“fgfŠ,ð□ì□—,·,é,Æ,«,É□AfXfNfŠfVfg,É<L□q,·,é•¶Žš—ň,ðfefXfg,·,é□ê□‡,É—~—
p,Å,«,Ü,·□B,Ü,½□A□Ú‘±□^—□,ì“r’t,Åft□□fU□[“ü—Í,^a•K—v,Æ,È,é,æ,α,È—áŠO“l,È□ê□‡,É,à□A,±,ì<@“\,ð—
—p,Å,«,Ü,·□B
^è”Ê,É□A□IŠÖ,ìfìfyf□□f^,^í%ž,·,é□ēŠ·,ð’Ê,¶,Ä□Ú‘±,·,é,Æ,«,È,Ç,ì,æ,α
,É□A“d~b<@,ðŽžg,Á,Ä_fCf,,f<·,·,é□ê□‡,Í□A,±,ì<@“\,ðŽžg,í,È,č,Å,,³/₄,³,č□B

,±,ìf`fFbfN f{fbfNfX,ðfif“ ,É,·,é,Æ□Af,ff€,ìf_fCf,,f< fg□lf“ ,â□Ú'±%o¹,a•.,±,!,È,,È,è,Ü,·□B

, ±, ìfAjjfEf“fg, ì Windows NT fhf□fCf“ fpfXf□□[fh, íŠúÆÀ, æ∅, ê, Ä, ç, Ü, ·□B□i, ·, ® fpfXf□□[fh, ð, ±, ìf_fCfAf□fO
f{fbfNfx, É“ü—í, μ, Ä□A•ï□X, μ, Ä,, ¾, ¾, ç□B
fpfXf□□[fh, í□A’â•¶Žš, Æ□¬•¶Žš, æ<æ•Ê, ¾, ê, Ü, ·□B□V, μ, ç fpfXf□□[fh, ð“ü—
í, ·, é, Æ, «, í□A’â•¶Žš, Æ□¬•¶Žš, Ì, Ç, ÿ, ç, ðŽg, Ä, ½, ©, ðŠo, Ì, Ä, “, ç, Ä,, ¾, ¾, ç□B

CE»Ÿ,lfpfXf[]fh,ð“ü—í,μ,Ü,·B

□V,μ,ϕpfXf□□[fh,δ“ü—í,μ,Ü,·□B

Šm" F, ì, ½, ß, É A V, μ, ç p f X f [f h, ð, à, æ ^ ê " x " ü — í, μ, Ü, · B

f_fCf,,f<fAfbfv fT□[fo□[.í□A'É~b—¿<à,đfT□[fo□['x,Å•%o'S,;,é,È,Ç-Ú“l,É%ož,¶,Ä•Ö—~ ,ÉŽg—p,Å,«,é,æ,x
,É□AfNf%ofCfAf“fg,Žw'è,μ,½”Ô□t,ÅfR□[f<fofbfN,·,é,æ,x,É□□¬,³,ê,Ä,ç,Û,·□B
fR□[f<fofbfN”Ô□t,ìŽw'è,í□AŽ©“®%o» ,Å,«,Û,·□B,±,ê,đ□s,x,É,í□A[,» ,ì'¼] ,đfNfŠfbfN,μ,Ä [ft□[fU□[□Y'è]
,đfNfŠfbfN,μ□AŽŸ,É [fR□[f<fofbfN] f^fu,ìfivfVf†f“,đ'ì'đ,μ,Û,·□B

fŠf.□[fg fAfNfZfX fT□[fo□[, ©, ç, ìfR□[f<fofbfN, ÉŽg, x"Ô□†, ð"ü—í, μ, Ü, ·□B

f,fff€ (Ü,½,í,»,'¼,ì'Ú'±'•'u) ,©,çfGf%o[,'ª•Ô,³,ê,Ü,μ,½BfTf|f[fg,³,ê,Ä,ç,éf,fff€,ðŽg,Á,Ä,ç
,éêê±,íA^ê“xf,fff€,ì“d€¹,ð∅,Á,Ä“d€¹,ð“ü,ê'¼,μ,Ä,,¾,¾,çB,Ü,½AfŠf,f[fg fAfNfZfX fT[frfX,ð|—
¹,μAÄ<N“@,μ,Ä,©,çAf_fCf,,f<,μ'¼,μ,Ä,,¾,¾,çB
fŠf.f[fg fAfNfZfX,ÄfTf|f[fg,³,ê,Ä,ç,È,çf,fff€,ðŽg,Á,Ä,ç,éêê±,íAf,fff€,ì»'ç€³,É-â,ç±,í,¹,Ä,-
,¾,¾,çB,Ç,ìf,fff€,³fTf|f[fg,³,ê,Ä,ç,é,©,É,Ä,ç,Ä,íA□wWindows NT
fn[fhfEjFfACEÝŠ·«fŠfXfg□x,ðŽQ□Æ,μ,Ä,,¾,¾,çB
f,fff€,³fŠf,f[fg fAfNfZfX—p,É³,μ,□□¬,³,ê,Ä,ç,é,±,Æ,ðŠm”F,μ,Ä,,¾,¾,çB□□¬,ðŠm”F,·,é•û-@,É,Ä,ç
,Ä,íA□uf_fCf,,f<fAfbfv_flfbfq□□fN,ðÄ□□¬,·,é□v,ðŽQ□Æ,μ,Ä,,¾,¾,çB

fŠf_fCf,,f<,:é,Ü,Å,ì•b□”,øffEf“fgf_fEf“,μ,Ü,·□BfŠf_fCf,,f<,í□A[ft□[fU□[□Ý’è] f_fCfA□fO f{fbfNfX,ì [f_fCf,,f<]
f^fu,Å,ì□Ý’è,ÉŠî,Ã,ç,Ä□s,í,ê,Ü,·□B

,±,lfGf"fgfŠ,ĂŽg,α,æ,α,É'í'ð,³,è,Ä,ç,éfvf[]fgfRf<,ì,α,¿[]A[],È,,Æ,à 1 ,Ă,ª[]Ú'±,ÉŽ, "s,μ,Û,μ,½[]B
[Žó,~"ü,è,é] ,ðfNfŠfbfN,·,é,Æ[]A·\Ž!,³,è,Ä,ç,éfvf[]fgfRf<,ðŽg,Á,Ă[]Ú'±,³,è,Û,·[]B
f`fFfbfN f{fbfNfX,ðfjf",É,·,é,Æ[]AŽŸ%ñf_fCf,,f<,μ,½,Æ,«,É,à[]A[];‰ñ,lf_fCf,,f<,Ă[]Ú'±
³,è,½fvf[]fgfRf<,¾,~,ªŽg,í,è,Û,·[]B,±,lf`fFfbfN
f{fbfNfX,ðfjf",É,μ,È,ç[]è[]#,í[]AfGf"fgfŠ,ÉŽg,α[]Ú'±fvf[]fgfRf<,ðf_fCf,,f<fAfbfv flfbfgf[][]fN,©,ç•ï[]X,μ,Ä,-
,¾,³,ç[]B,±,è,ð[]s,α,É,í[]Af_fCf,,f<fAfbfv flfbfgf[][]fN,ĂfGf"fgfŠ,ð'í'ð,μ[]A[,»,'¼]
,ðfNfŠfbfN,μ,Û,·[]BŽŸ,É[]A[fGf"fgfŠ,Æf`fff€,lfvf[]pfefB,ì•Ö[]W] ,ðfNfŠfbfN,μ[]A[fT[]fo[][] f^fu,Ă[]A[]Ú'±
,ÉŽg,αflfbfgf[][]fN fv[]fgfRf<,ð'í'ð,μ,Û,·[]B

•\Ž! ,³ ,ê,Ä,ç,éfvf□fgfRf<,đŽg,Á,Ä□Ú'±,·,é,Æ,«,ÉfNfŠfbfN,μ,Û,·□B

□Ú'±,đ□Ø'f,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

, ±, ìf`fFfbfN f{fbfNfX, ðflf“ ,É, ·, é, Æ□AŽŸ%œñf_fCf,,f<, μ, ½, Æ, «, É□A□i%œñ, ìf_fCf,,f<, Å□Ú' ±

,³, ê, ½fvf□fgfRf<, ¾, ¯, aŽg, í, ê, Û, ·□B
fGf“fgfŠ, ÉŽg, ¼□Ú' ±fvf□fgfRf<, ð•ï□X, ·, é, É, í□Af_fCf,,f<fAfbfv flfbfgf□□[fN, ÅfGf“fgfŠ, ð'l'ð, μ□A[, »], ì'¼]

, ðfNfŠfbfN, μ, Û, ·□BŽŸ, É□A[fGf“fgfŠ, Æf, fff€, ìfvf□fpfefB, ì•Ö□W] , ðfNfŠfbfN, μ□A[fT□[fo□[] f^fu, Å□A□Ú' ±

, ÉŽg, ¼flfbfgf□□[fN fvf□fgfRf<, ð'l'ð, μ, Û, ·□B

f_fCf,,f:fAfbfv flfbfgf[]fN,ì”F[]Ø,ÉŽg,í,è,éfAjjfEf”fg[]î•ň,í[]A’É[]í,í[]Aflfbfgf[]fN f[]fOfjf”—
p,ìfAjjfEf”fg[]î•ň,Æ”˘,¶,Å,·[]Bf_fCf,,f:fAfbfv flfbfgf[]fN,í[]A,±,è,ç,ìfAjjfEf”fg[]î•ň,ðŽg,Å,Ä[]AfNf
%ofCfAf”fg ft[]fU[][,ª•” —[]“l,Éflfbfgf[]fN,ÖfAfNfZfX,·,é[]E —˘,ðŽ[],Å,©,Ç,κ
,©,ð[]EÏ[],,μ,Û,·[]B,½,¾,μ[]Af_fCf,,f:fAfbfv flfbfgf[]fN,íŽÀ[]Û,ÉfŠf,[]fg
ft[]fU[][,ðf[]fOfjf”³,¹,é,í,˘,Å,Í, ,è,Û,¹,ň[]B,±,ì,½,ß[]AfŠf,[]fg
ft[]fU[][,í[]A•Û[]Eì,³,è,½flfbfgf[]fNŽ’[]E¹,ÉfAfNfZfX,·,é,É,í[]A,½,ç,Ä,ç,ì[]ê[]#[]A[]Ú’±,ªŠm—
š,³,è,½[]Eã,ÉŽ[]©•ª,Åf[]fOfjf”·,·,é•K—v,ª, ,è,Û,· (Windows NT ,ì[]ê[]#,È,ç[]ACtrl + Alt + Del f[]l[][,ðŽg,ç
,Û,·)[]B

fŠf,□[fg fAfNfZfX—p,ìft□[fU□[-¼,đ“ü—í,μ,Û,·□B

fŠf.□[fg fAfNfZfX—p,ìpfXf□□[fh,đ“ü—í,μ,Ü,·□B

Microsoft » , Å, í, È, ç, f, T, [fo, [, ð, Ç, Ä, Ñ, o, , µ, Ä, ç, é, ê, ð, ð, í, A, fhf, f, C, f, " , ð " ü — í, , é • K — v, í, , è, Ü, ¹, ñ, B
Microsoft f, T, [fo, [, ð, Ç, Ä, Ñ, o, , µ, Ä, ç, é, ê, ð, ð, í, A, ±, ±, Å " ü — í, , é, fhf, f, C, f, " - ¹/₄, í, A, Windows NT RAS
f, T, [fo, [[A, Ü, ¹/₂, Í, Ž, © • ð, í, f, C, f, , f, < f, A, f, b, f, v, f, l, f, b, f, g, f, [[f, N, f, A, f, j, f, E, f, " f, g, , ð ' ® , µ, Ä, ç, é, Windows NT fhf, f, C, f, " , ì -
¹/₄ ' O, Å, È, , è, í, È, è, Ü, ¹, ñ, B, ±, é, í, A, P, P, P, f, v, f, [fo, f, C, f, , â, SLIP f, v, f, [fo, f, C, f, , ©, ç, Ž, æ " ³/₄, µ, ¹/₂ DNS fhf, f, C, f, " -
¹/₄, Å, í, , è, Ü, ¹, ñ, B, ¹/₂, Æ, í, í, A, www.halcyon.com , Æ, ç, Å, ¹/₂ fhf, f, C, f, " - ¹/₄, Å, í, È, A, Accounting , È, Ç, ì, fhf, f, C, f, " -
¹/₄, Æ, È, è, Ü, , B, fhf, f, C, f, " , , æ, Ñ, M — Š, Š, Ö, Ç, E, W, È, Å, ç, Ä, í, A, w, f, R, f, " f, Z, f, v, f, g, f, A, f, " f, h, f, v, f, % , o, f, " f, j, j, f, " f, O
f, K, f, C, f, h, [x, ð, Ž, Q, [Æ, µ, Ä, , ³/₄, ³, ç, B
MSN , É, Ú, ' ±, , é, ê, ð, ð, í, A, [f, +, [f, U, [[- ¹/₄] f, {, f, b, f, N, f, X, É, msn \ username , Æ " ü — í, µ, [A, [fhf, f, C, f, "] f, {, f, b, f, N, f, X, È, í
% , o, ¹/₂, à " ü — í, µ, È, ç, Å, , ³/₄, ³, ç, B

,±,ìf`fFfbfN f{fbfNfX,ðfif“ ,É,·,é,Æ□A,±,ìfGf“fgfŠ,ìpfXf□□[fh,ª•Ù‘¶,³,ê,Û,·□BŽÿ%œñ,±
 ,ì“d~b’ fGf“fgfŠ,ðŽg,Á,Ä□Ú’±,·,é,Æ,«,©,ç,í□A,±,ì”F□Øf_fCfA□f□O f{fbfNfX,í•\Žì,³,ê,Û,¹,ñ□B
 ,±,ìf`fFfbfN f{fbfNfX,ðfif“ ,É,µ,Ä□Ú’±
 ,µ□ACEã,©,çfGf“fgfŠ,ìpfXf□□[fh,ð•í□X,·,é□ê□‡,í□A“d~b’ fGf“fgfŠ,ð•Ò□W,µ□A[fzfLf...fŠfefB] f^fu,Å
 [fpfXf□□[fh,ð•Ù‘¶,µ,È,ç] ,ðfNfŠfbfN,µ,È,¯,ê,î,È,è,Û,¹,ñ□B

f_fCf,,f<fAfbfv flfbfgf□□[fN,ìfNf%ofCfAf“fg,í□AIP fAfhfCEfX,đŽ□,Á,Ä,ç
,È,˘,ê,î,Ê,è,Û,ˆ,ñ□BfAfhfCEfX,af_fCf,,f<fAfbfv fT□[fo□[.É,æ,Á,ÄŽ©“@“l,ÉŠ,,è“-,-,Ä,ç,ê,é□ê□†,í□A,±
,ìfjfvfj†f“,đ‘l‘đ,μ,Û,·□B

f_fCf,,f:fAfbfv flfbfgf□□[fN fNf%ofCfAf“fg,Æ,μ,Ä“Á'è,ì IP fAfhfCEfX,ª•K—v,È□é□‡,í□A,±
,ìfjvfVf‡f“,ð'l'ð,μ□A•K—v,È IP fAfhfCEfX,ð“ü—í,μ,Ü,·□B

•K—v,È IP fAfhfCEfX,ð“ü—í,μ,Û,·□Bf_fCf,,f<fAfbfv fT□[fo□[í□AfNf%ofCfAf“fg,ª“Á’è,ì IP fAfhfCEfX,ðŽg,±,±,Æ,ðfNf%ofCfAf“fg,É<-%oÂ,·,é,æ,±,É□\□¬,³,ê,Ä,ç,È,¬,ê,î,È,è,Û,¹,ñ□B

f_fCf,,f<fAfbfv flfbfgf[]fN fNf%ofCfAf“fg,í[]AfRf“fsf...[]f^,ªŽg,¼ IP fAfhfCEfX,ð[]ŠÔ,ªŽg,¼,©,è,â,·,ç-
¼‘O,É•ĪŠ,·,éft[]fo[],ð•K—v,Æ,·,é[]ê[]‡,ª, ,è,Û,·[]B,½,Æ,¡,í[]A198.105.232.1 ,í[]Aft[]fU[],ª
ftp.microsoft.com ,Æ,ç,¼-¼‘O,ĀŽQ[]Æ,·,éfrf“fsf...[]f^,ì IP fAfhfCEfX,Ā,·[]B

DNS (Domain Name System[]F fhf[]fCf“ f[]f[]f€ fVfXfef€) fT[]fo[],í[]A[]çŠE‘t,ì TCP/IP
flfbfgf[]fN,ĀŽg,í,ê,Ā,ç,Û,·[]BWINS (Windows Internet Name Service[]F Windows fCf“f^[]flfbfg f[]f[]f€
fT[]f[]rfX) fT[]fo[],í[]A[]Windows NT Version 3.5 ,©,ç“±“ü,ª,è,½fT[]fo[],Ā,·[]B,Ç,¿,ç,à[]A[]Windows NT
f_fCf,,f<fAfbfv flfbfgf[]fN fNf%ofCfAf“fg,É-¼‘O%oðCE^fT[]f[]rfX,ð‘ñ<Ÿ,µ,Û,·[]B

,±,ìf[]fvf[]f[]f“ ,ð‘l‘ð,·,é,Æ[]Af_fCf,,f<fAfbfv fT[]fo[],ªf_fCf,,f<fAfbfv flfbfgf[]fN fNf%ofCfAf“fg,É DNS
fT[]fo[], © WINS fT[]fo[],ðŠ,,è“-,Ā,é,æ,¼,É,È,è,Û,·[]B

,±,ìfìfvfvf#f“,ð‘ì‘ð,·,é,Æ□ADNS fT□[fo□[□AWINS fT□[fo□[□A,“,æ,Ñ,»,ê,¼,ê,ìfZfjff“f_fŠ
fT□[fo□[(fofbfNfAfbfv fT□[fo□[) ,ðŽw’è,Å,«,Ü,·□B
0.0.0.0 ,É□Ý’è,³,ê,½fAfhfÇfX,Ü,½,í‘l,ª“ü—í,³,ê,Ä,ç,È,çfAfhfÇfX,ðŽw’è,μ,À,à□A,»,ìf□[f€
fT□[fo□[fAfhfÇfX,ì□\□-,í•ì□X,³,ê,Ü,¹,ñ□B

DNS fT[]fo[][,ì IP fAfhfÇfX,ð“ü—í,μ,Ü,·[]B

fZjff“f_fŠ DNS fT□[fo□[.ì IP fAfhfCEfX,ø“ü—í,μ,Ü,·□B

WINS fT[]fo[],ì IP fAfhfÇfX,ð“ü—í,µ,Û,·B

fZjf“f_fŠ WINS fT□[fo□[,ì IP fAfhfĈfX,š“ü—í,μ,Ü,-□B

,±,ìf`fFfbfN f{fbfNfX,í□APPP fT□[fo□[.Ö,ìf□Ofif“□^—□’t,“,æ,ÑfifSfVfG□[fVfjf“’t,É Van Jacobson IP
fwfbf_□[^³□k,đŽg,κ,©,Ç,κ,©,đ□Ý’è,μ,Ü,·□B

,±,ìf`fFfbfN f{fbfNfX,đfif“ (Šù’è,ì□Ý’è) ,É,·,é,Æ□Af_fCf,,f<fAfbfv flfbfgf□□[fN,í VJ fwfbf_□[^³□k,đŽg,“,κ
,Æ,μ,Ü,·□B ^³□k,đŽg,Á,½’É□M,ª,Á,«,é,©,Ç,κ,©,ìfŠf,□[fg PPP fT□[fo□[,ì<@”\

,É^É’¶,·,é,½,β□A□→CE÷,·,é□é□‡,àŽ,“s,·,é□é□‡,à, ,è,Ü,·,ª□AVJ
fwfbf_□[^³□k,ìfifSfVfG□[fVfjf“ ,ÉŽ,“s,μ,Á,à□Ú’±,ª’tŽ~ ,³,é,é,±,Æ,í, ,è,Ü,¹,ñ□B

,±,ìf`fFfbfN f{fbfNfX,đfift,É,·,é,Æ□Af_fCf,,f<fAfbfv flfbfgf□□[fN,í□AfT□[fo□[,É VJ fwfbf_□[^³□k,đ—
v<□,μ,½,è□AfT□[fo□[.©,ç—v<□,³,é,Á,à,»,ì^³□k—v<□,đŽó,¯•t,¯,½,è,μ,Ü,¹,ñ□BMicrosoft
□»,Á,í,È,çCEĀ,çfo□[fWfjf“ ,ì PPP fT□[fo□[fVfjgfEjFfA,ì□é□‡,í□AVJ fwfbf_□[^³□k,đ—LCEø,É,μ,Á,“, ,Æ
Windows NT f_fCf,,f<fAfbfv flfbfgf□□[fN,Æ’É□M,Á,«,É,ç,±,Æ,à, ,è,Ü,·□B,±,ìf`fFfbfN
f{fbfNfX,đfift,É,μ,È,¯,é,ì,È,ç,È,ç,ì,í□A□³□í,É□Ú’±,Á,«,é,ì,É□A•Đ•ûCEü,Ü,½,í—¼•ûCEü,É IP ff□[f^,đ“]’—
,Á,«,É,ç□é□‡,¾,¯,Á,·□B

,±,ìf`fFfbfN f{fbfNfX,đfift,É,·,é,Æ□AZÿ,ìfCEfWfXfgfS’l,í-³CEø,É,È,è,Ü,·□B

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Rasman\PPP\IPCP\
AcceptVJCompression

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Rasman\PPP\IPCP\
RequestVJCompression

,±,ìf`fFfbfN f{fbfNfX,íAflfbfgf[]fN fj[]fh,ðŽg,Á,Ä,ç,Ä LAN ,É,à“`Žž,ÉÚ‘±,³,è,éf_fCf,,f<fAfbfv
flfbfgf[]fN fNf%oCfAf“fg,É,μ,©“K—p,³,è,Ü,¹,ñB,±,ìf`fFfbfN f{fbfNfX,ðflf“ ,É,·,é,ÆA f[]fj<
flfbfgf[]fN,Éf<[]fefBf“fO,Å,«,È,ç (‘—M[]æ,ªCE©,Ä,©,ç,È,ç) fpfPfbfg,ífŠf,[]fg
flfbfgf[]fN,ìŠù`è,ìfQ[]fgfEjFfC,É“]’—,³,è,Ü,·B,³,ç,ÉAfŠf,[]fg flfbfgf[]fN,Æf[]fj<
flfbfgf[]fN,ìŠÔ,ÅfAfhfCEfX,ì<£[]‡,ª“[]¶,μ,½[]ê[]‡,íAfŠf,[]fg flfbfgf[]fN,ð—D[]æ,μ,ÄfAfhfCEfX
%oðCE^,³,è,Ü,·B

f_fCf,,f<fAfbfv flfbfgf□□[fN fNf%ofCfAf“fg,í□ASLIP fT□[fo□[,É□Ú'±,Å,«,Ü,·□BSLIP fT□[fo□[,É□Ú'±
,·,é,É,í□AIP fAfhfCEfX,ðŽw'è,μ,È,¯,è,î,È,è,Ü,¹,ñ□BIP fAfhfCEfX,í□A'É□í,í^□[f~fif< fEfBf“fhfE,Å“ü—
í,μ,Ü,·,^a□A,±,±,Å, ,ç, ©,¶,ß“ü—í,μ,Ä, ¨,,±,Æ,à,Å,«,Ü,·□B□Ú'±Žž,ÉfT□[fo□[,^aŠ,,è“-.,Ä,é IP fAfhfCEfX,^{a-}
%oň“¯,¶□ê□‡,É,^{3/4}, □A,±,±,ÉfAfhfCEfX,ð“ü—í,μ,Ä,,^{3/4},³,ç□B

DNS fT[]fo[][]AWINS fT[]fo[][]A,¨,æ,Ñ,»,ê,¼,ê,ìZfjff“f_Š fT[]fo[][] (fofbfNfAfbfv fT[]fo[][])
,đŽw’è,Å,«,Ü,·□B
0.0.0.0 ,É□Ý’è,³,ê,½fAfhfÇfX,Ü,½,í’l,ª“ü—í,³,ê,Ä,ç,È,çfAfhfÇfX,đŽw’è,μ,Ä,à□A,»,ìf[]f€
fT[]fo[][] fAfhfÇfX,ì□\□¬,í•ï□X,³,ê,Ü,¹,ñ□B

DNS fT[]fo[][,ì IP fAfhfCEfX,ð“ü—í,μ,Ü,·[]B

fZjff“f_fŠ DNS fT□[fo□[.ì IP fAfhfCEfX,ø“ü—í,μ,Ü,·□B

WINS fT[]fo[],ì IP fAfhfÇfX,ð“ü—í,μ,Û,·□B

fZjf“f_fŠ WINS fT□[fo□[,ì IP fAfhfĈfX,š“ü—í,μ,Ü,-□B

f_fCf,,f<fAfbfv flfbfgf□□[fN,ì SLIP ,Á,í□AVan Jacobson (VJ) TCP/IP fpfPfbfg fwfbf_□[^{^3}□k<@“\,²fTf|
□[fg,³,é,Ä,ç,Ü,·□BV] ,í□A^{1/2},,ì SLIP □[^]—□CEn,ÁfTf|□[fg,³,é,Ä,ç,éfvf□fgfRf<□Á“K%»<@“\,Á,·,²□A^è•”,ì SLIP
□[^]—□CEn,í VJ ,ðfTf|□[fg,μ,Ä,ç,Ü,¹,ñ□B

,±,ìf`fFfbfN f{fbfNfX,ðfift (Šù`è,ì□Y`è) ,É,·,é,Æ□Af_fCf,,f<fAfbfv flfbfgf□□[fN,ì SLIP
,í□A^{^3}□k,³,é,½fpfPfbfg,ðCEŸ□o,μ,æ,κ,Æ,μ□A^{^3}□k,³,é,½fpfPfbfg,²CE©,Á,©,Á,½□é□±,ÍŽ©“@“I,É VJ
fwfbf_□[^{^3}□k,ðŽg,ç,Ü,·□B,±,ì□Y`è,É,μ,Ä,“, ,Æ□A□Ú´±,ð³□í,ÉŠm—š,Á,«,é%oÁ“\□«,²□Á,à□,,-
,È,è□A,³,ç,É□A,½,ç,Ä,ç,ì□é□±,í□Á—Ç,ìfpftfH□[f}f“fX,ð“¾,é,±,Æ,²,Á,«,Ü,·□B

fT□[fo□[‘κ,ÆfNf%oCfAf“fg’κ,ì—¼•û,Á^{^3}□k,ìCEŸ□o,²ŽŽ,Ý,ç,é,é□é□±,í□A^{^3}□k<@“\,²fAfNfefBfu%o»,³,é,É,ç
,±,Æ,à, ,è,Ü,·□BfŠf,□[fg fT□[fo□[,à VJ fwfbf_□[^{^3}□k,ðfTf|□[fg,μ,Ä,ç,é,±,Æ,²,í,©,Á,Ä,ç,é□é□±,í□A,±
,ìf`fFfbfN f{fbfNfX,ðfif“ ,É,μ,Ä^{^3}□k<@“\,ðfAfNfefBfu,É,μ□AfpftfH□[f}f“fX,ðCEü□ă,³,¹,Ä,-
,¾,³,ç□Bf_fCf,,f<fAfbfv flfbfgf□□[fN f,fjf^,ì [□ó‘ó] f^fu,ì^{^3}□k□î•ñ,ðŠÄŽ<·,é,±
,Æ,É,æ,Á,Ä□A^{^3}□k,²□s,í,é,Ä,ç,é,©,Ç,κ,©,ðŠm“F,Á,«,Ü,·□B

’□ ,±,ìf`fFfbfN f{fbfNfX,ðfif“ ,É,μ,Ä,ç,Ä□AfŠf,□[fg fT□[fo□[,² VJ fwfbf_□[^{^3}□k,ðfTf|□[fg,μ,Ä,ç
,É,©,Á,½□é□±□AŽó□M,í□³□í,É□s,í,é,Ü,·,²□A’—□M,ÍŽ,“s,μ,Ü,·□B,±,ì,æ,κ
,É□é□±□A,Ü,Æ,ñ,Ç,ìfAvfŠfP□[fVf†f“,Á,í‘o•ûCEü,ìÉ□M,²•K—
v,Æ,È,é,½,β□A’É□í,í□AfZfbfVf†f“,í’tŽ~,³,é,Ü,·□B

,±,ìf`fFfbfN f{fbfNfX,íAflfbfgf[]fN fj[]fh,ðŽg,Á,Ä,ç,Ä LAN ,É,à“`Žž,ÉÚ‘±,³,è,éf_fCf,,f<fAfbfv
flfbfgf[]fN fNf%oCfAf“fg,É,μ,©“K—p,³,è,Ü,¹,ñB,±,ìf`fFfbfN f{fbfNfX,ðflf“ ,É,·,é,ÆA f[]fj f<
flfbfgf[]fN,Éf<[]fefBf“fO,Å,«,È,ç (‘—M[]æ,ªCE©,Ä,©,ç,È,ç) fpfPfbfg,ífŠf,[]fg
flfbfgf[]fN,ìŠù`è,ìfQ[]fgfEfFfC,É“]’—,³,è,Ü,·B,³,ç,ÉAfŠf,[]fg flfbfgf[]fN,Æf[]fj f<
flfbfgf[]fN,ìŠÔ,ÅfAfhfCEfX,ì<£[]‡,ª”[]¶,μ,½[]ê[]‡,íAfŠf,[]fg flfbfgf[]fN,ð—D[]æ,μ,ÄfAfhfCEfX
%oðCE^,³,è,Ü,·B

'—□MftfÆ□[f€,ìTfCfY,đ'í,Ñ,Ü,·□BŠù'è,ìÝ'è,Å,í□A,±,ìTfCfY,í 1006 ,Å,·□BfŠf,□[fg fAfNfZfX fT□[fo□[,ª
1500 fofCfg,ìfpfPfbfg,đŽó, ¯•t, ¯,é□ê□‡,í□A1500 ,à'í'đ,Å,«,Ü,·□B

RAS f^ [f~fif<, í AfŠf, [fg fRf“fsf... [f^, ©, ç' —, ç, ê, Ä, «, ½ f [fOfif“ ^ — — p, ì • ¶ Žš — ñ, ð • \
Ž, , é • ¶ Žš f x [fX, ì fE fBf“ fhfE, Ä, · B' Ê í A, ±, ì fE fBf“ fhfE, í AfŠf, [fg fRf“fsf...
 [f^, Ö, ì f [fOfif“, ð í ~ b“ i, É i, B, é, ½, B, É Žg — p, Ä, «, Ü, · B Ž è“ ©, ì f [fOfif“, í Af^ [f~fif<
fE fBf“ fhfE, ð Žg, í, , É AfX fNfŠ fvf g, ð Žg, Á, Ä Ž ©“ @ % » , , é, ±, Æ, à, Ä, «, Ü, · B Ú ×, É, Ä, ç, Ä, í A u f Š f, [fg
f [fOfif“, É RAS f^ [f~fif<, ð Žg, g [v, ð Ž Q [Æ, µ, Ä, , ¾, ¾, ç B
f_fCf,, f< 'O, ", æ, Ñ f_fCf,, f< Ç ä, ì f f v f v f f f“, ð • Ì X, ·, é, É, í Af_fCf,, f< f A f b f v f l f b f g f [fN, ì [fX fN fŠ fvf g] f^ f u, ð Žg, ç
, Ü, · B

fŠf,□[fg fRf“fsf...□[f^,ì IP fAfhfCEfX,đ“ü—í,μ,Ü,-□B

fŠf.□[fg fRf“fsf...□[f^,Æ,ìî~b,ð,·,×,ÄŠ@—¹,μ,½CEã,ÉfNfŠfbfN,μ,Û,·□B

f_fCf,,f<fAfbfv flfbfgf□□[fN,ìf}f<f`fŠf“fN<@”\,í□A•;□”,ì•” —□“l,ÈfŠf“fN,ð□A~ _—□“l,È 1 ,Â,ì ““©”
,ÉCE<□‡,μ,Ü,·□B,±,·ì•;□‡fŠf“fN,ð□i□¬,·,é,±,Æ,É,æ,è□A’Ñ^æ•□,ð□L,,·,é,±
,Æ,ª,Â,«,Ü,·□Bf}f<f`fŠf“fN,ª□Â,à^ê”Ê“l,ÉŽg,í,è,é,ì,í□AISDN f`fff|f<,ìCE<□‡,Â,·ª□A•;□”,ìf,fff€
,ðCE<□‡,³,¹,½,è□Af,fff€,Æ ISDN %oñ□ü,ðCE<□‡,³,¹,½,è,·,é,±,Æ,à,Â,«,Ü,·□Bf}f<f`fŠf“fN,ðŽg,ª
,É,í□Af_fCf,,f<fAfbfv fT□[fo□[,Â,àf}f<f`fŠf“fN,ª—LCEø,É,È,Á,Ä,ç,È,¯,ê,î,È,è,Ü,¹,ñ□B
CEÄ,Ñ□o,μŽž,ÉCEÝ,ç,ÉfŠf“fN,³,¹,é’•’u,ð’l’ð,μ,Ä,,¾,³,ç□B

,±,ì'•'u,ì□V,μ,ϕ“d~b”Ô□t□A,Û,½,í'ã'Ö“d~b”Ô□t,ð'Ç%oÁ,·,é,Æ,«,ÉfNfŠfbfN,μ,Û,·□B

'•'uCEĀ—L,ìŸ'è,ð\Ÿ¬,;é,Æ,«,ÉfNfŠfbfN,μ,Û,·B,½,Æ,!,ÎAŸ'±,Éf,fff€;đŽg,ꝛêŸ‡,ÍA,±,±,đfNfŠfbfN,;é,ÆAŸ,fff€,ìÊM'¬"x,đŸ'è,μ,½,èAŸ,fff€^³Ÿk<@"\,đ—LCEø,É,μ,½,è,Ā,«,Û,·B

,±,ìfRf“fsf...[]f^[]ã,ì'•'u,ì't,©,ç[]A[]Ú'±[]ó'Ô,ð•\Ž|,.,é'•'u,ð'l,Ñ,Ü,·[]B

Ú±,ªfAfNfefBfu,È,Æ,«,íA,±,±,É,íCE»Ý,ì'•u,ìŽg—pó<μ,ª•\Žì,³,ê,Ü,·BfNf%ofCfAf“fg,ìê±,íA“d~b' f
Gf“fgfŠ,ª•\Žì,³,êAfT[fU[.ìê±,íAÚ'±,³,ê,Ä,ç,éft[fU[,ª•\Žì,³,ê,Ü,·B
Ú±ó'Ó,ª”ñfAfNfefBfu,ì,Æ,«,íACE»Ý,±,ìfGf“fgfŠ,ìÚ'±,íS,í,ê,Ä,ç,Ü,¹,ñB

f,ff€,,Æ,İŠÔ,İff□[f^,İ“]’—’—“x,^a bps (frfbfg/•b) ’P^Ê,Å•\Ž!,³,ê,Ü,.□B

• " —□"l,É□Ú'±,ªŠm—š,μ,Ä,©,ç,lŒo%œßŽžŠÔ,ª•b'P^Ê,Å•\Ž! ,ª,ê,Ü,·□B

ŽóMff[]f^,ìó'Ô,ª•\Ž!,³,ê,Û,·B

'—□Mff□[f^,ì□ó'Ô,â•\Ž|,³,ê,Û,·□B

□Ú'±'†,É"□¶,μ,½fGf%□[,³•\Ž!,³,ê,Û,·□B

,±,ìÚ'±,ð'Ê,¶,ÄŽóM,μ,½fofCfg",ì‡CEv,ª•\Ž!,³,ê,Û,·B,±,ì""'l,íA^³k%øðœ,³,ê,½CEã,ìfofCfg",ð•\ ,μ,Ä,ç,Û,·B

fT[fō[, ©,čŽóM,μ,½~ _—f|fbfgf[fN ftjCE[f€” ,ª•\Ž!,³,ê,Ü,·BftjCE[f€,ìCE`Ž® ,íAŽg—p,μ,Ä,ç
,éf|fbfgf[fN fvjfgfRf<,É,æ,èCE^,Ü,è,Ü,·BftjCE[f€,ìA’âftjCfY,í 1514 fofCfg,Å,·B—‘z”l,ÈŽd—
l,ÅÝCEv,³,ê,½fNf%fCfAf“fg fT[fō[fAfvfŠfP[fVf#f” ,íAŠeftjCE[f€
,đŠ®‘S,ÉA,Ü,½,í,Ù,ÚŠ®‘S,ÉŽg,çAftjCE[f€” ,ª,Å,« ,éCEÀ,è,È,,È,é,æ,ª,É,μ,Äff[f^,đ”]’—
,μ,Ü,·BftjCfY,ì¬,³,çftjCE[f€,ª’â—É,É”]’—,³,ê,Ä,ç,éèè#AŽÀs’t,ìfAfvfŠfP[fVf#f” ,íA,¨,»,-
A”]’—‘¬“x,ì’x,çÚ’±,ÅCEø—!,æ,ŽÀs,Å,« ,é,æ,ª,É,íÝCEv,³,ê,Ä,ç,Ü,¹,ňB

ŽóM,μ,½ff□[f^,ì^³□k,ì"ä—,ª•\Žì,³,é,Ü,·□B^³□k—,í□A'ì,ª□,,ç•û,ª—],Ü,μ,çfpf
%of□□[f^,Á,·□B,½,Æ,ì,î□A400 fofCfg,ìff□[f^,đŽóM,μ,Ä^³□k%ø□œ,·,é,Æ 1000
fofCfg,É,É,Á,½□ê□#,í□A^³□k—,í 60% ,Á,·□B,±,ì'ì,É"½%of,³,é,Ä,ç,é,ì,í□Añ
ftfgfEjFfA^³□k,¾, ,Á,·□B'B□—,Á,«,é^³□k—,í□A"ì'—,³,é,éff□[f^"à,É, ,é□ç'·"•ª,ì—
É,É,æ,Á,ÄÆ^,Ü,è,Ü,·□B,½,Æ,ì,î□AfeLjXfg,âfrfbjgf}fbfv,íÆø—,æ,^³□k,³,é,Ü,·,ª□AZÀ□s%oÁ"\
,Èftf@fCfç,âŠù,É^³□k,³,é,Ä,ç,éff□[f^,í, ,Ü,èÆø—,æ,^³□k,³,é,Ü,¹,ñ□B
IP fv□f□gRfç VJ fwfbf_□[³□k,đŽg,Á,Ä (fAfNfefBfu,É,μ,Ä) □Ú'±,μ,Ä,ç,é□ê□#,í□A,±,ì'ì,Éfwfbf_□[ì^³□k—,à
%oÁ,ì,ç,è,Ü,·□B,±,ì,½,ß□A[ñftfgfEjFfA,É,æ,é^³□k,ð□s,π] f`fFfbfN f{fbfNfX,ðfift,É,μ,Ä,ç,Ä,à (,±
,ì□Y'è,íff□[f^,ì,Ý,É"K—p,³,é,é,ì,Á□Añft,É,μ,Ä,àfwfbf_□[ì^³□k,í-³Æø,É,É,è,Ü,¹,ñ)□A,±,ì'ì,í 0
,É,É,ç,É,ç□ê□#,à, ,è,Ü,·□B
'□ f}fç`fLfffXfg ff□[f^fof%of€,âftfçfY,ì"ñ□í,É□—,³,çftfç□[f€,È,ç,ì^è•",ìftfç□[f€,É'í,μ,Ä,í□Añ
ftfgfEjFfA^³□k,í□s,í,é,Ü,¹,ñ□B,±,ì,æ,π,Èftfç□[f€,í□A^³□k□^—□,ìÆvZZ,É,ÍSÜ,Ü,é,Ü,¹,ñ□B

,±,ìÚ'±,ð'Ê,¶,Ä'—M,μ,½fofCfg",ì‡CEv,ª•\Ž!,³,ê,Û,·B,±,ì""l,íA^³k%œ,³,ê,é'O,ìfofCfg",ð•\
,μ,Ä,ç,Û,·B

fT[fō[.Ö'—M,μ,½~_—flfbfgf[fN ftjCE[f€",ª•\Ž!,³,ê,Û,·BftjCE[f€,ìCE`Ž® ,íAŽg—p,μ,Ä,ç
,éflfbfgf[fN fvjfgfRf<,É,æ,Á,ÄCE^,Û,è,Û,·BftjCE[f€,ìA'âftjCfY,í 1514 fofCfg,Ä,·B—'z"l,ÈŽd—
l,ÄÝCEv,³,ê,½fNf%fCfAf"fg fT[fō[fAfvfŠfP[fVf#f",íAŠeftjCE[f€
,đŠ®'S,ÉA,Û,½,í,Û,ÚŠ®'S,ÉŽg,çAftjCE[f€",ª,Å,«,éCEÀ,è,,È,,È,é,æ,x,É,μ,Äff[f^,ð"j'—
,μ,Û,·BftjCfY,ì¬,³,çftjCE[f€,ª'â—É,É"j'—,³,ê,Ä,ç,éèè#AŽÀs't,lfAfvfŠfP[fVf#f",íA,¨,»,ç,-
A"j'—'¬"x,ì'x,çÚ'±,ÅCEø—!,æ,ŽÀs,Å,«,é,æ,x,É,íÝCEv,³,ê,Ä,ç,Û,¹,ñB

"J'—,μ,½ff□[f^,ì^³□k,ì"ä—,ª•\Ž!,³,ê,Ü,·□B^³□k—,í□A'l,ª□,,ç•ù,ª-],Ü,μ,çfpf
%of□□[f^,Ä,·□B,½,Æ,!,í□A1000 fofCfg,ìff□[f^,ð 400 fofCfg,É^³□k,μ,Ä"J'—,μ,½□ê□#,í□A^³□k—,í 60%
,Ä,·□B,±,ì'l,É"½%of,³,ê,Ä,ç,é,ì,í□A\ftfgfEjFfA^³□k,¾,¯,Ä,·□B'B□-,Ä,«,é^³□k—,í□A"J'—,³,ê,éff□[f^"à,É, ,
é□ç'·"•ª,ì-É,É,æ,Á,ÄCE^,Ü,è,Ü,·□B,½,Æ,!,í□AfeLjXfg,âfrfbfgf}fbfv,íCEø—,æ,^³□k,³,ê,Ü,·,ª□AŽÀ□s
%oÄ"\,Èftf@fCf<,âŠù,É^³□k,³,ê,Ä,ç,éff□[f^,í, ,Ü,èCEø—,æ,^³□k,³,ê,Ü,¹,ñ□B

IP fv□f□g□fRf< VJ fwfbf_□[ì^³□k,ðŽg,Á,Ä (fAfNfefBfu,É,μ,Ä) □Ú'±,μ,Ä,ç,é□ê□#,í□A,±,ì'l,Éfwfbf_□[ì^³□k—,à
%oÁ,!,ç,ê,Ü,·□B,±,ì,½,ß□A[\ftfgfEjFfA,É,æ,é^³□k,ð□s,κ] f`fFfbfN f{fbfNfX,ðfift,É,μ,Ä,ç,Ä,à (,±
,ì□Y'è,ìff□[f^,ì,Ý,É"K—p,³,ê,é,ì,Ä□Aift,É,μ,Ä,àfwfbf_□[ì^³□k,í-³CEø,É,È,è,Ü,¹,ñ)□A,±,ì'l,í 0
,É,È,ç,È,ç□ê□#,à, ,è,Ü,·□B

'□ f}f<f`fLfffXfg ff□[f^fof%of€,âfTfCfY,ì"ñ□í,É□-,³,çftfCE□[f€,È,Ç,ì^ê•",ìftfCE□[f€,É'í,μ,Ä,í□A\A
ftfgfEjFfA^³□k,í□s,í,ê,Ü,¹,ñ□B,±,ì,æ,κ,ÈftfCE□[f€,í□A^³□k□^—□,ìCEvŽŽ,É,íŠÜ,Ü,ê,Ü,¹,ñ□B

„%ñç’·Ĉÿ (CRC) ,ž, ”s,É,æ,è”¶,μ,½fGf%o[,ì” ,ª·\Ž!,³,è,Û,·BCRC fGf%o[,íAff[f^
fpfPfbfg“à,ÉfT[f o[,©,ç³,μ,“ž’... ,μ,È,©,Á,½·¶Žš,ª, ,é,±,Æ,ðŽ!,μ,Û,·B

'—,ç,ê,Ä,,é,í,,ì•ŕŽš,ð^è'èŽžŠÔ“à,ÉŽó□M,Á,«,©,Á,½%ñ□”,ª•\Ž!,³,ê,Ü,·□B,±,ĵGf%□[,ª”-
□ŕ,·,é,Æ□Afff□Ĵf^,ªŽ,,í,ê,½,ÆCE©,È,³,ê□AĴftfgfEĴFfA,í□Ä'—v<□,ð'—,è,Ü,·□B

ŽóM,μ,½•ŕŽš,ª—,ç,è,Ä,,é,í,,ì•ŕŽš,Æ^Ù,È,Á,Ä,ç,é%ň",ª•\Ž!,ª,è,Û,·B^è"Ê,ÉAZ,,í,è,½•ŕŽš,ª, ,é,Æ
,«A,Û,½,Íf^fCf€fAfEfg fGf%[],"[]μ,½,Æ,«,ÉAfAf%ofCf[]"fg fGf%[],"[]μ,Û,·B

"ň"~Šú'É□M,Å-³CEø,ÉfXf^□[fg frfbfg,Ü,½,ÍfXfgfbfv frfbfg,ð"²,π•¶Žš,ðŽó□M,μ,½,±,Æ,ðŽ!,·fGf%□□,ì"□¶
%□ñ□",ª•\Ž!,³,è,Ü,·□B,±,ÌfGf%□□,ª"□¶,μ,ÄfŠf,□[fg fAfNfZfX□Ú'±,ðŠm—š,Å,«,È,ç□ê□#,Í□AfRf"fsf...
□[f^,©,çf,fff€,Ö,ì (DTE ,©,ç DCE ,Ö,ì) ff□[f^"']'—'—"x,ªŠÖ^á,Ä,Ä,ç,é%□Å"\□«,ª, ,è,Ü,·□B,±,ì-â'è,ª"-
□¶,μ,½,Æ,ç,π,±,Æ,Í□AfŠf,□[fg fAfNfZfX—p,Ìf,fff€,ì□\□—"à—e,ªŽg—p,μ,Ä,ç,é,fff€,É□#,Ä,Ä,ç,È,ç%□Å"\
□«,ª, ,è,Ü,·□Bf{□[fCE□[fg,Ü,½,Ífn□[fhfEfFfA ftf□□[□SCEä,ì□Ý'è,ð•ï,¡,é,Æ□A-
â'è,ðCEyCE, ,Å,«,é□ê□#,ª, ,è,Ü,·□B,±,ÌfGf%□□,ªCEp'±"l,É"□¶,·,é□ê□#,â□ARAS CEo—R,ì□Ú'±,ªŠm—
š,Å,«,È,ç□ê□#,Í□AfVfXfefeŠÇ—□ŽÒ,É-â,ç□#,í,¹,Ä,,³/4,³,ç□B

'—□M'α, ðRf"fsf...□[f^, É, æ, éff□[f^, ì"]'—'—"x, a□AŽó□M'α, ðRf"fsf...□[f^, ðfn□[fhfEjFfA fCEfxf<, Å, ð^—□" \—
í, ð', ð, ½%ñ□", a•\Ž, ³, ê, ð, ·□B, ±, ð-â'è, aCEp'±, ·, é□è□±, í□Af{□[fCE□[fg, ð'á, ç'l, É•İ□X, μ, Å, , ¾, ³, ç□B

'—□M'α, ðRf"fsf...□[f^, É, æ, éff□[f^, ì"]'—'—"x, a□AŽó□M'α, ðRf"fsf...□[f^, ðftfgfEjFfA fCefxfç, Å, ð^—□" \—
í, ð', ð, ½%ñ□", a•\Ž!, ð, ð, ðB, ±, ð-â'è, aCep'±
, ·, éêê±, í□A{□[fC□[fg, ð'á, ç'í, É•ï□X, ·, é, ©□A, Ü, ½, íŽó□M'α, ðRf"fsf...□[f^, ð CPU , É, ©, ©, é•%
%x, ðCeyC, μ, Ä, , ¾, ¾, ç□B

,±,ìÚ'±,ÉŠÖ, :é“Ævñ•ñ,ð 0 ,ÉfŠfZfbfg,μ,Û,·B

,±,ì'•'u,ìfìbfqf[]fN[]Ú'±,ÉŠÖ,·,é[]Ú[]×[]î•ñ,ª•\Žì,³,ê,Ü,·[]B

□Ú'±,đ□Ø'f,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

f,fff€ŠÔ,ìfSfVfG[]fVf+f",³|—¹,µ,½,Æ,«,É[]Af[][]fjf< f,fff€,©,çfRf"fsf...[]f^,É'—[]M,³,ê,½•¶Žš—ñ,ª\ Ž,³,ê,Ü,·[]B^ê"É"l,É[]A•¶Žš—ñ,í CONNECT ,ĂŽn,Ü,è[]A'½,- ,ìê[]#[]A,» ,ìĀă,É[]AfSfVfG[]fVf+f",³,ê,½<@"\,ì[]ó<µ,Æ%ñü'→"x,ª±,«,Ü,·[]B,½,Æ,ì,î[]A"V.42 bis is in use" ,È,Ç,Â,·[]BISDN %ñü,đŽg,Á,Ă,č,éê[]#,í[]A,±,±,É,í%½,à•\Ž,³,ê,Ü,¹,ñ[]B"ĂŽê,È%ž"š,ì[]à- ¾,É,Â,č,Ă,í[]AŽg—p,µ,Ă,č,éf,fff€,ìf}ff...fAf<,đŽQ[]Æ,µ,Ă,,¾,³,č[]B

'•'u,āŽóM,μ,½ff[f^,ì^³k%øðœ'O,ìfofCfg",ā•\Ž!,³,ê,Û,·B

'•'u, a' — □M, μ, ½ff□[f^, î^3□kÆã, ìfofCf g□", a•\Ži, 3, ê, Û, ·□B

,Ç,İfİbfçfN,ÆA,±,İRf“fsf...[f^ä,İ,Ç,İ'•'u,ªÚ'±,³,ê,Ä,ç,é,©A,¨,æ,Ñ,Ç,İft[fU[ªÚ'±,³,ê,Ä,ç
,é,İ,©,ðE©,é,±,Æ,ª,Ä,«,Ü,·B

,±,ì'•'u,ìfìbfqf□□[fN□Ú'±,ÉŠÖ,·,é□Ú□×□î•ñ,ª•\Žì,³,ê,Ü,·□B

□Ú'±,đ□Ø'f,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

ŽŸ,ÉŽ!,·Ú'±f□bfZ□[fW,đ"`,!,é,½,ß,É%°¹,đ-Â,ç,:æ,κ,ÉRf“fsf...□[f^,đ□□¬,Â,«,Ü,·□B

,±,ìf`fFfbfN f{fbfNfX,ðfif“ ,É,·,é,Æ□A□Ú'±,³□³□f,ÉŠm—§,³,è,½,Æ,«,É%°¹,ð-Â,ç,μ,Û,·□B

,±,ìf`fFbfN f{fbfNfX,ðfif“,É,·,é,Æ□A□Ú‘±,³□Ø’f,³,è,½,Æ,«,É%°¹,ð-Â,ç,μ,Û,·□B

,±,ÿ`fFfbfN f{fbfNfX,ðfif“,É,·,é,Æ□Aff□[f^,ª“]‘—,³,ê,½,Æ,«,É%o¹,ð-Â,ç,µ,Û,·□B

,±,ÿ`fFbfN f{fbfNfX,ðfif“,É,·,é,Æ□AfGf%□[,³”□¶,μ,½,Æ,«,É%□¹,ð-Â,ç,μ,Û,·□B

,±,ìf`fFbfN f{fbfNfX,ðfif“,É,·,é,Æ□Aflfbfgf□□[fN f,;jjf^,ª<N“ ®,³,è,½CEä,É□Af^fXfNfo□[É [f_fCf,,f<fAfbfv
flfbfgf□□[fN f,;jjf^] fAfCfRf“,É'í%ž,·,éf{f^f“,ª•\Ž!,³,è,Ü,·□B

f_fCf,,f:fAfbfv flfbfgf[]fN f,fjf^,í[]AfXfe[]f^fX f%fCfg,ðfAfCfRf“,©ffXfNfgfbfv[]ã,ìfEfBf“fhfE,ì 2
,Ã,ìE` ,ì,Ç,ì,ç,©,É•Žì,·,é,æ,π,É[]¬,Å,«,Ü,·[]B

,±,ìfifvfVf#f“,ð'ì'ð,·,é,Æ□AfXfe□[f^fX f%ofCfG,í□Af^fXfNfo□[,ìŽžÆv,ì—x,É [f_fCf,,f·fAfbfv flfbfgf□□[fN
f.fjf^] fAfCfRf“,Æ,μ,Ä·\Žì,³,ê,Û,·□B

,±,ìfìfvfVf#f“,ð‘l’ð,·,é,Æ□AfXfe□[f^fX f%ofCfG,í□AfffXfNfgfbfv□ã,É [f_fCf,,f<fAfbfv flfbfgf□□[fN f,fjff^]
fEfBf“fhfE,Æ,μ,Ä•\Žl,³,ê,Ü,·□B

,±,ìf`fFbfN f{fbfNfX,đfif“,É,·,é,Æ□A[f_Cf,,f<fAfbfv flfbfgf□□[fN f,fff^] fEfBf“fhfE,Éf^fCf<g<,ª•\
Ž,³,è,Û,·□B

,±,ìf`fFbfN f{fbfNfX,ðfif“ ,É,·,é,Æ□A[f_fCf,,f<fAfbfv flfbfgf□□[fN f,fjf^]
fEfBf“fhfE,í,í,É,Ù,©,ìEfBf“fhfE,æ,è,àŽè'O,É•\Ž,³,è,Ü,·□B

fXfe[]f^fX f%ofCfg,³fRf“fsf...[]f^[]ã,ì,ç,ìfffofCfX,ìó'Ô,ðŽì,·,©,ð'l,Ô,Æ,«,ÉfNfŠfbfN,μ,Ü,·[]B

,±,±,Å%oÁ,!,½•ĪX,đ,·,®Éf_Cf,,f<fAfbfv flfbfgf[]fN f,fjf^,É“K—p,·,é,Æ,«,ÉfNfŠfbfN,μ,Û,·□B

,±,ìf`fFfbfN f{fbfNfX,ðflf“,É,·,é,Æ□Af_fCf,,f<fAfbfv flfbfgf□□[fN f,ffj^,ìfEfbf“fhfE“à,ÅfXfe□[f^fX f
%ofCfg,³□è,ß,é—ì^æ,ì'å,«,³,ð□§CEä,Å,«₃,é,æ,π,É,È,è,Ü,·□B

,±,ìfRf“fsf...[]f^[]ã,ì'•u,ì't,©,ç[]AfXfe[]f^fX f%ofCfg,ð•\Ž!,:,é'•'u,ð'l'ð,μ,Û,·[]B

'l'đ,μ,½'•'u,Ü,½,ÍÚ'±,ª•\Ž!,³,ê,Ü,·□B

,±,ì'•'u,ª□Ú'±,ÉŽg,Á,Ä,č,éfvf□fgfRf<,ª•\Ž!,³,ê,Û,·□B

f_fCf,,f<fAfbfv fT[]fo[],©,çRf“fsf...[]f^,ÉŠ,,è“-,Ä,ç,ê,½fAfhfçfX,î^è—,ª•\Ž,³,è,Ü,·B•\ Ž,³,è,é,ì,í[]Af_fCf,,f<fAfEfg[]Ú'±-p,Æ,μ,Ä-L∅,É,È,Á,Ä,ç,éfvf[]gfRf<,îfAfhfçfX,¾,¯,·B

RAS fT[]fo[],ì IP fAfhfCEfX,³•\Ž!,³,ê,Ü,-□B

f_fCf,,fAfbfv fT[fo[.,©,çRf“fsf...[f^,ÉŠ,,è“-,Ä,ç,ê,½ IPX flfbfgf[[]fN”Ô[†,ª•\Ž|,³,ê,Ü,·[B

IPX fm[]fh,í[]A“Á'è,lfRf“fsf...[]f^,đŽ^-•Ê,μ,Ü,·[]B

,±,ìfRf“fsf...[]f^,ì-¼'O,ª•\Žì,³,ê,Ü,·[]B

f_fCf,,fAfbfv flfbfgf[]fN,Å,íŠefGf“fgfŠ,É•;[]”,ì“d~b”Ô[]t,ðŠ,,,è“- ,Ä,é,±,Æ,³,Å,«,Ü,·[]B,±
.ê,í[]A•;[]”,ì“d~b”Ô[]t,ð—p^Ó,μ,Ä, ,é[]Ú’±[]æ,É[]Ú’±,·,é[]ê[]‡,É•Ö—~,Ä,·[]B
fGf“fgfŠ,É 2 ,Ä-Ú^È[]~,ì“d~b”Ô[]t,ð’Ç%oÁ,·,é,É,í[]A[]V,μ,ç“d~b”Ô[]t,ð“ü—í,μ[]A[‘Ç%oÁ]
.ðfNfŠfbfN,μ,Ü,·[]B

fGf“fgfŠ,É 2 ,Â-Ú^È~ ,ì“d~b”Ô+ ,đ'Ç%oÁ, ,é,Æ,«,ÉfNfŠfbfN,μ,Û,·B

[“d~b”Ô□t] f{fbfNfX,Å'1'ð,³,ê,Ä,ç,é“d~b”Ô□t,ð□V,μ,ç“d~b”Ô□t,É'u,«Š,;,é,Æ,«,ÉfNfŠfbfN,μ,Û,·□B

fGf“fgfŠ,ì‘ă‘Ö“d~b”Ô□t,ì^ê—,ª•\Žì,³,ê,Û,·□B

[“d~b”Ôt] f{fbfNfX,Å‘đ,μ,½“d~b”Ôt,đA-U“l,ì#~ ,É,È,é,Ü,Åã,É^Ú“® ,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·B
f_fCf,,f<fAfbfv flfbfgf[fN,íAÚ’±,Šm—š,³,é,é,Ü,Åã,ì”Ôt,©,ç#Éf_fCf,,f<,μ,Ä,ç,«,Ü,·B

[“d~b”Ôt] f{fbfNfX,Å‘đ,μ,½“d~b”Ôt,đA-U“l,ì#~ ,É,È,é,Û,Å%º,É^Ú“® ,·,é,Æ,« ,ÉfNfŠfbfN,μ,Û,·B
f_fCf,,f<fAfbfv flfbfgf[fN,íAÚ‘±,Šm—š,³,é,é,Û,Åã,ì”Ôt,©,ç# ,Éf_fCf,,f<,μ,Ä,ç,« ,Û,·B

[“d~b”Ô□t] f{fbfNfX,Å'1'ð,μ,½“d~b”Ô□t,ðí□œ,·,é,Æ,«,ÉfNfŠfbfN,μ,Û,·□B

,±,ìf`fFfbfN f{fbfNfX,ðfif“,É,μ,Ä,¨,,Æ□A□³□í,É□Ú‘±,³,ê,½“d~b”Ô□t,ª^ê——
,ì^ê”Ô□ã,Û,Å^Ú“® ,³,ê,Û,·□BŽŸ%oň“˘,¶“d~b’ fGf“fgfŠ,Åf_fCf,,f< ,·,é,Æ,« ,í□A,Û,·□ã,É^Ú“® ,³,ê,½”Ô□t,Å□Ú‘
±,ªŽŽ,Ý,ç,ê,Û,·□B

Ú“á”Ô†,ÍA“d~b’ fGf“fgfŠ,ì“d~b”Ô†,ìæ“á,É’Ç%Á,³,ê,Û,·B
—~—p%Á“\,ÈÚ“á”Ô†,ì^ê—,ÉÚ“á”Ô†,ð’Ç%Á,·,é,É,ÍA,±,ìf{fbfNfX,ÉÚ“á”Ô†,ð“ü—Í,μA[’Ç%Á]
,ðfNfŠfbfN,μ,Û,·B

—~—p%oÁ“\,È□Ú“a”Ô□†,ì^è—,É□V,μ,ϕ□Ú“a”Ô□†,đ’Ç%oÁ,·,é,Æ,«,ÉfNfŠfbfN,μ,Û,·□B

[Ú“a”Ôt] f{fbfNfX“à,Å<’²•\Ž|,³,ê,Ä,ç,éÚ“a”Ôt,ðV,μ,çÚ“a”Ôt,É’u,«Š,ı,é,Æ,«,ÉfNfŠfbfN,μ,Û,·B

—~—p%oÂ“\,È□Ú“a”Ô□†,ì^ê—,a•\Ž! ,è,Û,·□B

'l'đ,μ,½Ú"ª"Ô†,đ-Ú"l,ì†~ ,É,È,é,Û,Åă,É^Ú" ® ,: ,é,Æ,« ,ÉfNfŠfbfN,μ,Û, ·B

'l'δ,μ,½Ú"ª"Ô†,δ-Ú"l,ì‡~ ,É,È,é,Û,Å%º,É^Ú"® ,: ,é,Æ,« ,ÉfNfŠfbfN,μ,Û,·B

'l'đ,μ,½Ú"â"Ô†,đíœ,:é,Æ,«,ÉfNfŠbfN,μ,Û,:B

Ú"ö"Ôt,íA"d~b' fGf"fgfŠ,ì"d~b"Ôt,ìĀă,ë,É'Ç%Á,³,ê,Û,·B
—~—p%Á"\,ÈÚ"ö"Ôt,ì^ê—,ÉÚ"ö"Ôt,đ'Ç%Á,·,é,É,íA,±,ìf{fbfNfX,ÉÚ"ö"Ôt,đ"ü—í,μA[·Ç%Á]
,đNfŠfbfN,μ,Û,·B

—~—p%oÁ"\,È□Ú"ö"Ô□†,ì^ê—,É□V,μ,ç□Ú"ö"Ô□†,ð'Ç%oÁ,·,é,Æ,«,ÉfNfŠfbfN,μ,Û,·□B

[Ú"ö"Ôt] f{fbfNfX"à,Å'²•\Ž!,³,ê,Ä,ç,éÚ"ö"Ôt,ðV,μ,çÚ"ö"Ôt,É'u,«Š,!,é,Æ,«,ÉfNfŠfbfN,μ,Û,·B

—~—p%oÁ"\,È□Ú"ö"Ô□†,ì^ê—,ª•\Ž†,ª,ê,Û,·□B

'l'δ,μ,½□ú"ö"Ô□†,δ-ú"l,ì□#□~,É,È,é,Ü,Å□ä,É^ú"®,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

'l'δ,μ,½Ú"ö"Ô†,δ-Ú"l,ì†~ ,É,È,é,Û,Å%º,É^Ú" ® ,·,é,Æ,«,ÉfNfŠfbfN,μ,Û,·B

'l'đ,μ,½Ú"ö"Ô†,đíœ,:é,Æ,«,ÉfNfŠfbfN,μ,Ü,·B

,Ç,ìŠÝ'n,©,ç_fCf,,f<,:é,©,đ'I,Ñ,Ü,·B

□V,μ,ϕ□Š□Ý'n,đ'Ç%oÁ,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B'Ç%oÁ,μ,½□Š□Ý'n,Í□A[f_fCf,,f<fAfbfv flfbfgf□□[fN]
fEfBf“fhfE,ì [“□MÇ³] f{fbfNfX,Ā'l'đ,Ā,«,é,æ,α,É,È,è,Ü,·□B

Ú“a”Ôt,žw’è,·,é,ÆAŠe“d~b’ fGf“fgfŠ,đ•ĪX,μ,È,,Ä,àA^êŽž“l,É,·,x,Ä,ì“d~b’ fGf“fgfŠ,ì“d~b”Ôt,ì
æ“a,É,»,”Ôt,đ’Ç%oÁ,·,é,±,Æ,a,Ä,«,Ü,·B
‘l’đ,μ,½ŠÝ’n,ÉŽg,αÚ“a”Ôt,đ’l’đ,μ,Ä,,¾,¾,çB

V,μ,ϕÚ“a”Ô†,đ’Ç%Á,·,é,Æ,«,ÉfNfŠfbfN,μ,Û,·B

Ú“a”Ô†,ì^ê—,íAfRf“fsf...f^ã,ìŠeftfU[,ªCEÂ•É,ÉŠÇ—,·,é,à,ì,Â,·B

Ú"ö"Ôt,žw'è,·,é,ÆAŠe"d~b' fGf"fgfŠ,đ•ĩX,μ,È,,Ä,àA^êžž"l,É,·,x,Ä,ì"d~b' fGf"fgfŠ,ì"d~b"Ôt,ìĚ
ã,ë,É,»,"Ôt,đ'Ç%oÁ,·,é,±,Æ,³,Å,«,Û,·B
'l'đ,μ,½ŠÝ'n,ÉŽg,αÚ"ö"Ôt,đ'l'đ,μ,Ä,,¾,³,ċB

V,μ,φÚ"ö"Ôt,đ'Ç%oÁ,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·B

Ú"ö"Ôt,ì^ê—,íAfrf"fsf...[f^ã,ìŠeft[fU[,ªCEÂ•Ê,ÉŠÇ—,·,é,à,ì,Â,·B

,±,ìf{fbfNfX,É,íA□V,μ,ϕ□Š□Ý'n,đ“ü—í,μ,Ü,·□B

ŠÝ'n,î^ê—,ÉV,μ,ϕŠÝ'n,ď'Ç%Á,·,é,Æ,«,ÉfNfŠfbfN,μ,Û,·B

[ŠÝ'n] f{fbfNfX,Å'l'ð,μ,½ŠÝ'n,ðV,μ,çŠÝ'n,É'u,«Š·,!,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·B

,±,ìfRf“fsf...[]f^,ÅŽg—p,Å,«,éŠŸ'n,ì^ê—,ª•\Ž!,³,ê,Ü,·B

'l'đ,μ,½ŠŸ'n,đíœ,:é,Æ,«,ÉfNfŠfbfN,μ,Ü,:B

[f_fCf,,f<Žž,É•Â,ŕ,é] f`fFfbfN f{fbfNfX,đfif“,É,.,é,Æ□A“d~b’ (f_fCf,,f<fAfbfv flfbfgf□□[fN)
,Í_fCf,,f<’t,É,Í”ň•\Ž!,É,È,è□A□Ú’±,ªŠm—š,³,è,é,Æ•Â,ŕ,ç,è,Û,·□B

f_fCf,,f'0,ÉfXfNfŠfvfg,àf^[]f~fif<,àŽg,í,È,ç[]é[]#,í[]A,±,ìf|fvfVf#f“,ð'!ð,μ,Û,·[]B

f_Cf,,f<'O,Éf^[]f~fjf< fEfBf“fhfE,ðŽg,æ[]ê[]‡,Í[]A,±,lfjfvfVf‡f“,ð'l'ð,µ,Û,·[]B
[]ufŠf.[][fg_f[]Of[]f“,É RAS f^[][f~fjf<,ðŽg,æ[]v,ðŽQ[]Æ,µ,Ä,,¾,³,¢[]B

f_fCf,,f'0,ÉfXfNfŠfvfg,đŽg,ϣé□†,í□A,±,ífífvfVf†f“,đ'í'đ,μ,Ü,·□B

f_fCf,,f' O,ÉŽg,xfXfNfŠfvg,đ'l'đ,μ,Ü,·□B,±,±,É•\Ž!,³,ê,éxfXfNfŠfvg,í□ASWITCH.INF “à,É<L□q,³,ê,Ä,¢
,Ü,·□BSWITCH.INF
,đ•Ò□W,·,ê,Î□AŠù'¶,ìxfXfNfŠfvg,đ□C□³,μ,½,è□A□V,μ,¢xfXfNfŠfvg,đ□ì□¬,μ,½,è,Å,«,Ü,·□B
□uSWITCH.INF fxfNfŠfvg,đŽg,Á,ÄfŠf,□[fg f□fOfif“,đŽ©“®%o»,·,é□v,đŽQ□Æ,μ,Ä,,³/₄,³,¢□B

Šù'¶, ìfXfNfŠfvg, ðC³, µ, ½, èA V, µ, çfXfNfŠfvg, ðì¬, µ, ½, è, ·, é, ½, ß, É SWITCH.INF , ðŠJ, -
, Æ, «, ÉfNfŠfbfN, µ, Ü, ·B

SWITCH.INF ,đ•Ò□W,μ,½CEã□AfXfNfŠfvg,ì^ê—,đ□X□V,·,é,Æ,«,ÉfNfŠfbfN,μ,Û,·□B

,±,lf`fFfbfN f{fbfNfX,ðflf“,É,·,é,Æ□A[f_cF,,f<•û-@] f{fbfNfX,ÅŽw`è,μ,½'•'u,ªŽg—p,Å,«,È,ç
,Æ,«,í□A“~ ,ŋŽí—p,ì'•'u,ª□ú'±,³,è,Ä,ç,é,Û,©,lf|□[fg,ªŽg,í,ê,Û,·□B,½,Æ,í,í□A[f_cF,,f<•û-@] f{fbfNfX,Å
[•W□€f,fff€ (COM1)] ,ð'í'ð,μ□A,±,lf`fFfbfN f{fbfNfX,ðflf“,É,μ,Ä,ç,½□ê□±□ACOM1 ,lf,fff€,ªŽg—
p't,ì,Æ,«,í□AŽ““““l,É COM2 ,lf,fff€,ªŽg,í,ê,Û,·□B

•;□”,ì'•'u,ð□□¬,μ,Ä,ç,Ä□Ä□%o,ì'•'u,É%o½,©^Û□í,a, ,é□ê□±,í□A,±,lf`fFfbfN f{fbfNfX,ðflft,É,·,é,ÆCE
'^ö,ð“È,«Ž~,ß,â,·,È,è,Û,·□B

RAS ,íAŽ ,”s,μ,½fŠf“fN,ìÄÚ’±,žž,Ý,Ä,č,Ü,·B,±,ì<@”\,ð•ïX,·,é,É,íAf_fCf,,f<fAfbfv
flfbfgf[]fN,ÅA[„,ì¼] ,ðNfŠfbfN,μ,Ä [ft[]fU[][]’è] ,ð’I’ð,μ,Ü,·BŽŸ,ÉA[f_fCf,,f<]
f^fu,ÅA[fšf“fNŽ ,”sžž,Éšf_fCf,,f<,·,é] f`fFfbfN f{fbfNfX,ðflft,É,μ,Ü,·B
 ,±,ì<@”\,³[]í,É“@[]i,·,é,É,íARAS ,ìf[]f_gf_fCf,,f<,žÄ[]s,³,è,Ä,č
,É,·,è,î,È,è,Ü,¹,ñBf[]f_gf_fCf,,f<,ð<N“@,·,é,É,íAfRf“fgf[]f< fpflf<,ì [fT[]f_rfX]
fAfCfRf“ ,ðf_fuf<fNfŠfbfN,μA[Remote Access Autodial Manager]
,ðf_fuf<fNfŠfbfN,μ,Ü,·B[fXf^[]f_gfAfbfv,ìŽí—p] ,Å [Ž@“@] ,Ü,½,í [Žè“@] ,ð’I’ð,μA[OK]
,ðNfŠfbfN,μ,Ü,·BŽŸ,ÉA[fT[]f_rfX] f_fCfAfbfv f{fbfNfX,Å [Šžn] ,ðNfŠfbfN,μ,Ü,·B

, ±, ìf`fFfbfN f{fbfNfX, ðfif“ ,É, ·, é, Æ□A□Ú'±, ðŽ, ”s, μ, ½, Æ, «, ÉfŠf_fCf,, f<, ·, é<@”\, ð—LCEø, É, È, è, Û, ·□B, ±, ì<@”\ , ð—LCEø, É, È, Á, Ä, ç, é, Æ□A□Ú'±, ðŽ, ”s, μ, ½, Æ, «, É, ÍŽ©“®“I, É□Ä□Ú'±, ð, è, Û, ·□B, ±, ì<@”\, Í□ARemote Access Autodial Manager fT□[frfX, ðŽÄ□s, ð, è, Ä, ç, é, Æ, «, É, μ, ©“®□ì, μ, Û, ð, ñ□B

Remote Access Autodial Manager fT□[frfX, ð<N“®“ , ·, é, É, Í□AfRf“fgf□□[f< fpf]f<, ì [fT□[frfX] fAfCfRf“ , ðf_fuf<fNfŠfbfN, μ□A[Remote Access Autodial Manager]

, ðf_fuf<fNfŠfbfN, μ, Û, ·□B[fXf^□[fgfAfbfv, ìŽí—p] , Å [Ž©“®] , Û, ½, í [Žè“®] , ð'I'ð, μ□A[OK]

, ðfNfŠfbfN, μ, Û, ·□BŽŸ, É□A[fT□[frfX] f_fCfAf□fO f{fbfNfX, Å [Š]Žn] , ðfNfŠfbfN, μ, Û, ·□B

“ÁŽě,Èf_fCf,,f< flfvfVf†f”

1.Â,lfGf“fgfŠ,É•j□”,l“d~b”Ô□t,ðŽg,⊘

□Ú“a”Ô□t,.,æ,Ñ□Ú”ö”Ô□t,ðŽg,⊘

fƨf<fX f_fCf,,f< (%oň“lŽ@f_fCf,,f<)

fg□[f“ f_fCf,,f< (fvfbfVf...Ž@f_fCf,,f<)

“d~b”Ô□t,l□C□üŽg

flfyfC□[f^,Ü,½,lŽè“@,É,æ,éf_fCf,,f<

fŠf_fCf,,f<,l□Ý’è

1 ,Ä,lfGf“fgfŠ,É•i□”,ì“d~b”Ô□t,ðŽg,æ

f_fCf,,f<fAfbfv flfbfgf□□[fN,Ä,ÍŠefGf“fgfŠ,É•i□”,ì“d~b”Ô□t,ðŠ,,,è“-„Ä,é,±,Æ,ª,Ä,«„Ü,·□B,±
,é,í□A•i□”,ì“d~b”Ô□t,ª—p^Ó,³,è,Ä,ç,é□Ú’±□æ,É□Ú’±,·,é□ê□‡,É•Ö—~„Ä,·□B

fGf“fgfŠ,É 2 ,Ä-Ú^È□~,ì“d~b”Ô□t,ð’Ç%oÁ,·,é,É,Í

- 1 f_fCf,,f<fAfbfv flfbfgf□□[fN,ì [Šî-{} f^fu,Ä□A[„»„ì’¼] ,ðfNfŠfbfN,μ,Ü,·□B
- 2 [□V,μ,ç“d~b”Ô□t] f{fbfNfX,É□V,μ,ç“d~b”Ô□t,ð“ü—í,μ□A[’Ç%oÁ] ,ðfNfŠfbfN,μ,Ü,·□B
- 3 [“d~b”Ô□t] f{fbfNfX,Ä“d~b”Ô□t,ð’l’ð,μ,Ä,©,ç [□ã,Ö]□A[%o,Ö]□A[□í□œ] ,ì,ç,.,,é,©,ðfNfŠfbfN,·,é,±
,Æ,É,æ,è□A’l’ð,μ,½“d~b”Ô□t,ð-Ú“l,ì^È’u,Ü,Ä^Ú“®„μ□A“d~b”Ô□t,ì□‡□~,ð•í□X,μ,Ü,·□Bf_fCf,,f<fAfbfv
flfbfgf□□[fN,í□A□Ú’±,ªŠm—š,³,è,é,Ü,Ä□A^è—,ì“d~b”Ô□t,ð□ã,©,ç□‡,Éf_fCf,,f<μ,Ü,·□B
- 4 [OK] ,ðfNfŠfbfN,μ,Ü,·□B

Ú“a”Ōt, ,æ,ŃÚ“ö”Ōt,žg,æ

f_fCf,,f<fAfbfv flfbfgf[fN, íAÚ“a”Ōt,âÚ“ö”Ōt,žg,æ,æ,É
-,Ā,«,Û,·BÚ“a”Ōt,ÆÚ“ö”Ōt,žg,æ,ÆAŠe“d~b’ fGf“fgfŠ,đ·íX,μ,È,,Ā,àA^èŽž“l,É,·,x,Ā,ì“d~b’ f
Gf“fgfŠ,ì“d~b”Ōt,ÉA‘l’đ,μ,½”Ōt,đ’Ç%Ā,·,é,±,Æ,ª,Ā,«,Û,·BÚ“a”Ōt,ÆÚ“ö”Ōt,íAf,fff€
,žg,Ā,Āf_fCf,,f<,³,è,é,·,x,Ā,ì“d~b’ fGf“fgfŠ,É“K—
p,³,è,Û,·B,Û,½AÚ“a”Ōt,ÆÚ“ö”Ōt,íA·;”],ì“d~b”Ōt,žg,ĀfGf“fgfŠ,É,à“K—p,³,è,Û,·B
,½,Æ,ì,îAŠŌü,É“d~b,·,é,É,í 8 ,đf_fCf,,f<,·,é“K—v,ì , ,ézfef<,É’ØÝ,μ,Ā,ç,ĀA’Ê~b—z<à,ìžx•¥,ç
,ÉfNfCEfWfbfg fj[fh,žg,æ,è,íA,±,lf_fCfAfO f{fbfNfX,žg,Ā,Āzfef<,ìŠŌü”M”Ōt,Æ’<—£’Ê~b
—p,ìžsŠŌ<Ç”Ō,đÚ“a”Ōt,Æ,μ,ĀŽw’è,μAfNfCEfWfbfg
fj[fh”Ōt,Æ^ĀØ”Ōt,đÚ“ö”Ōt,Æ,μ,ĀŽw’è,μ,Û,·B

“ÁžêfR[fh

“d~b”Ōt,ì’Ō,Éf_fCf,,f<,·,é 0A9A, ,æ,Ń 8 ,íA%oižĐ,È,Ç,ì“d~bVfXfef€,Ā^è”É,É,æ,-
žg,í,é,éÚ“a”Ōt,Ā,·B
Ú“d~b,Ā,íAfVfXfef€,à—p,Ā,«,é<@”\,à,³,Û,´,Û,Ā,·B,»,ì¼,ì“ÁžêfR[fh,É,Ā,ç,Ā,íACE_-ñ,μ,Ā,ç
,é“d~b%oižĐ,â’<—£’Ê~b—p,ì’ÉM<ÆŽŌ,É-â,ç,í,¹,Ā,,¾,³,çB

“d~b’ fGf“fgfŠ,ÉÚ“a”Ōt,âÚ“ö”Ōt,đ’Ç%Ā,·,é,É,í

- 1 [f_fCf,,f<fAfbfv flfbfgf[fN] fEfBf“fhfE,ĀA[ŌŠÝ’n] ,đfNfŠfbfN,μ,Û,·B
- 2 -Ú“l,ìÚ“a”Ōt,Û,½,íÚ“ö”Ōt,đ,»,è,¼,è,ì^è—,©,ç‘l’đ,μ,Û,·B^è—,É·\Ž!,³,è,Ā,ç
,È,çÚ“a”Ōt,Û,½,íÚ“ö”Ōt,đ’Ç%Ā,·,é,É,íA[Ú“a”Ōt,ì^è—],Û,½,í [Ú“ö”Ōt,ì^è—]
,đfNfŠfbfN,μ,Û,·B
- 3 [OK] ,đfNfŠfbfN,μ,Û,·B

ŠŌ~A€-Ú

“d~b”Ōt,ìÚ“a”Ōt

“d~b”Ōt,ìÚ“ö”Ōt

“d~b”Ôt, ÌÚ“a”Ôt

Ú“a”Ôt, ðŽw'è, ., é, ÆA“d~b' fGf“fgfŠ, Ì“d~b”Ôt, Ìæ“a, É, » , Ì”Ôt, ð'Ç%Á, Å, «, Ü, .B

—~—p%Á“\, ÈÚ“a”Ôt, Ì^ê—, ÉÚ“a”Ôt, ð'Ç%Á, ., é, É, Í

- 1 [f_fCf,,f<fAfbfv flfbfgf[fN] fEfBf“fhfE, Ì [ŠÝ'n] , ðfNfŠfbfN, µ, Ü, .B
- 2 [ŠÝ'n, ÌÝ'è] f_fCfAfbfO f{fbfNfX, Ì [Ú“a”Ôt, Ì^ê—] , ðfNfŠfbfN, µ, Ü, .B
- 3 [V, µ, çÚ“a”Ôt] f{fbfNfX, ÉV, µ, çÚ“a”Ôt, ð“ü—Í, µ, Ü, .B
- 4 [‘Ç%Á] , ðfNfŠfbfN, µ, Ü, .B“ü—Í, µ, ½Ú“a”Ôt, a^ê—, É'Ç%Á, ³, è, Ü, .B[Ú“a”Ôt] f{fbfNfX, Å<'2•\ Ž!, ³, è, Ä, ç, éÚ“a”Ôt, ðV, µ, çÚ“a”Ôt, É'u, «Š, !, éê†, ÍA['uŠ] , ðfNfŠfbfN, µ, Ü, .B
- 5 [Ú“a”Ôt] f{fbfNfX, ÅÚ“a”Ôt, ð'Ì'ð, µ, Ä, ©, ç [ä, Ö]A[%º, Ö]A[íœ] , Ì, ç, ., é, ©, ðfNfŠfbfN, ., é, ± , Æ, É, æ, èA'Ì'ð, µ, ½Ú“a”Ôt, ð-Ú“Ì, Ì^ê'u, Ü, Å^Ú“® , µAÚ“a”Ôt, Ì†~ , ð•íX, µ, Ü, .B
- 6 [OK] , ðfNfŠfbfN, µ, Ü, .B

“d~b”ÔĤ,ÌŮ”ö”ÔĤ

Ů”ö”ÔĤ,ðžw'è,·,é,ÆA“d~b' fGf“fgfŠ,Ì“d~b”ÔĤ,ìĈě,ë,É,»,”ÔĤ,ð'Ç%Á,Å,«,Ü,·B

—~—p%Á”\,ÈŮ”ö”ÔĤ,Ì^ê—,ÉŮ”ö”ÔĤ,ð'Ç%Á,·,é,É,Í

- 1 [f_fCf,,f<fAfbfv flfbfgf[]fN] fEfBf“fhfE,Ì [ŠŮ'Ůn] ,ðfNfŠfbfN,μ,Ü,·B
- 2 [ŠŮ'Ůn,ÌŮ'è] f_fCfAfbfO f{fbfNfX,Ì [Ů”ö”ÔĤ,Ì^ê—] ,ðfNfŠfbfN,μ,Ü,·B
- 3 [Ů,μ,çŮ”ö”ÔĤ] f{fbfNfX,ÉŮ,μ,çŮ”ö”ÔĤ,ð“ü—Í,μ,Ü,·B
- 4 [‘Ç%Á] ,ðfNfŠfbfN,μ,Ü,·B“ü—Í,μ,½Ů”ö”ÔĤ,ª^ê—,É'Ç%Á,³,ê,Ü,·B[Ů”ö”ÔĤ] f{fbfNfX,Å<²·\ Ž!,³,ê,Ä,ç,éŮ”ö”ÔĤ,ðŮ,μ,çŮ”ö”ÔĤ,É'u,«Š·,!,éêë,ÍA[‘uŠ·] ,ðfNfŠfbfN,μ,Ü,·B
- 5 [Ů”ö”ÔĤ] f{fbfNfX,ÅŮ”ö”ÔĤ,ð'Í'ð,μ,Ä,©,ç [ä,Ö]A[%º,Ö]A[íœ] ,ì,ç,,ê,©,ðfNfŠfbfN,·,é,± ,Æ,É,æ,èA'Í'ð,μ,½Ů”ö”ÔĤ,ð-Ů“l,Ì^ê'u,Ü,Å^Ů“® ,μAŮ”ö”ÔĤ,ìç~ ,ð·íX,μ,Ü,·B
- 6 [OK] ,ðfNfŠfbfN,μ,Ü,·B

fpf<fX f_fCf,,f< (%oň“]Ž@f_fCf,,f<)

f_vfbfVf...Ž@,lfq[f“ f_fCf,,f<,Åf_fCf,,f<,μ,Ä,ç,ÄA%oň“]Ž@,lfpf<fX
f_fCf,,f<,É∅,è'Ö,!,é,É,íA“d~b”Ôt,lfpf<fX f_fCf,,f< (%oň“]Ž@f_fCf,,f<) ,ðŠ]Žn,·,éêŠ,É "P"
,ð}'“ü,μ,Ü,·B

,½,Æ,!,îAZÿ,ì,æ,α,È“d~b”Ôt,ðŽw'è,μ,½,Æ,μ,Ü,·B

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,±,îê#Af_fCf,,f<fAfbfv flfbfgf[fN,íA555-5678 ,ðf_fCf,,f<,μ,Ä,©,çpf<fX f,[]fh (%oň“]Ž@f,[]fh)
,É∅,è'Ö,íAZÿ,Éfpf<fX f_fCf,,f< (%oň“]Ž@f_fCf,,f<) ,Å 555-1234 ,ðf_fCf,,f<,μ,Ü,·B

ŠÖ~A€-Ú

fg[f“ f_fCf,,f< (f_vfbfVf...Ž@f_fCf,,f<)

fg[]f" f_fCf,,f< (fvfbfVf...Ž@f_fCf,,f<)

%oň"]Ž@ ,lfpf<fX f_fCf,,f<,Áf_fCf,,f<,μ,Ä,ϕ,Ä[]AfvfbfVf...Ž@ ,lfg[]f"

f_fCf,,f<,É[]Ø,è'Ö,ì,é,É,í[]A"d~b"Ô[]t,lfg[]f" f_fCf,,f< (fvfbfVf...Ž@f_fCf,,f<) ,ðŠ]Žn, ,é[]é[]Š,É "T"
,ð'}"ü,μ,Ü, ·[]B

,½,Æ,!,î[]AZÿ,ì,æ,α,È"d~b"Ô[]t,ðŽw'è,μ,½,Æ,μ,Ü, ·[]B

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,±,ì[]é[]#[]Af_fCf,,f<fAfbfv flfbfgf[][]fN,í[]A555-5678 ,ðf_fCf,,f<,μ,Ä,©,çfg[]f" f,[]fh (fvfbfVf...Ž@f,[]fh)

,É[]Ø,è'Ö,ì[]AZÿ,Éfg[]f" f_fCf,,f< (fvfbfVf...Ž@f_fCf,,f<) ,Ä 555-1234 ,ðf_fCf,,f<,μ,Ü, ·[]B

ŠÖ~A[]€-Ú

fpf<fX f_fCf,,f< (%oň"]Ž@f_fCf,,f<)

“d~b”Ôt,ìCüŽq

•ŕŽš	<@”\
, (ff“f})	^êžž’âž~ ,μ,Ä, ©, ç (, Û, Æ, ñ, Ç, ìf, fff€, ìê# , íA2 •bŠÓ) Af_fCf,,f<, ð’±s, μ, Û, ·B
@	□, È, , Æ, à 1 %oñ, ìCEÄ, Ñ□o, μ %o¹, Æ□A□” •bŠÓ, ì-³ %o¹□ó’Ö, ð’Ö, ÿ, Û, ·B
P	fg□lf“ f_fCf,,f< (fvfbfVf...Ž®) , ©, çpf<fX f_fCf,,f< (%oñ“]Ž®) , É□Ø, è’Ö, ì, Û, ·B
T	fpf<fX f_fCf,,f< (%oñ“]Ž®) , ©, çg□lf“ f_fCf,,f< (fvfbfVf... Ž®) , É□Ø, è’Ö, ì, Û, ·B
W	f_fCf,,f< fg□lf“ , ð’Ö, Á, Ä, ©, ç’±s, μ, Û, · (2400bps ^É□ã, ì’É□M’-“x, ìf, fff€—p)□B

, ½, Æ, ì, ì Afzfef<, ì”%o® , ©, çf_fCf,,f< , éê# , íAŠOü, É, ©, -, é, ½, ß, É“d~b”Ôt, ì’O, É 9 , ð’Ç
%oÁ, μ, È, -, è, Ì, È, ç, È, ç, ±, Æ, ð, , è, Û, ·B, ±, ìê# □A”Ôt, ÌŽÿ, ì, æ, x, É, È, è, Û, ·B

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, ±, ì, æ, x, ÉŽw’è, ·, é, Æ□A9 , ìCEã, è, ìff“f}, ì”•ª, ÅŠOü”□M, Å, «, é□ó’Ö, É, È, é, Û, Å□\
•ª, É’Ö, Á, Ä, ©, ç□AŽc, è, ì”Ôt, ìf_fCf,,f<, ð’±s, μ, Û, ·B

f1fyfCE[f^,Ü,½,íŽè“@,É,æ,éf_fCf,,f<

,±,ì<@“\,ðŽg,æ,ÆAf1fyfCE[f^,æ€ì,·,éCEðŠ·‘ä,ð%oi,µ,½CEÄ,Ño,µ,ðs,æ,È,ÇAf_fCf,,f<fAfbfv
flfbfgf[fN,l_fCf,,f<<@“\,ðŽg,í,,ÉAŽè“@,Äf_fCf,,f<,·,é,±,Æ,ª,Ä,«,Ü,·B

f1fyfCE[f^,ð%oi,µ,½f_fCf,,f<,âŽè“@f_fCf,,f<,ðs,æ,É,í

- 1 f_fCf,,f<fAfbfv flfbfgf[fN,ÄAf_fCf,,f<,·,é“d~b' fGf“fgfŠ,ð'í'ð,µA[,»,ì'¼] ,ðfNfŠfbfN,µ,Ü,·B
- 2 [f1fyfCE[f^,Ü,½,íŽè“@,É,æ,éf_fCf,,f<] ,ðfNfŠfbfN,µA[f_fCf,,f<] ,ðfNfŠfbfN,µ,Ü,·B,µ,Ü,·B
[,»,ì'¼] fffj...[l,ì [f1fyfCE[f^,Ü,½,íŽè“@,É,æ,éf_fCf,,f<] ,Éf`fFfbfN f}[fN,ª•t,ç,Ä,ç
,éê±,¾,~A[f1fyfCE[f^CEo—R,Ü,½,íŽè“@CEÄ,Ño,µ] f_fCfAfo f{fbfNfX,ª•\Ž,³,è,Ü,·B
- 3 “d~b,íŽó~bŠí,ðŽæ,èä,°A”Ôt,ðf_fCf,,f<,·,é,©Af1fyfCE[f^,Éf_fCf,,f<,·,é,æ,æ,É^È—Š,µ,Ü,·B
,±,ì,Æ,«A”Ôt,ª,í,©,è,â,·,ç,æ,æ,ÉAfGf“fgfŠ,ÉŠ,,è“-Ä,ç,è,Ä,ç,é”Ôt,ªf_fCfAfo f{fbfNfX,É•\
Ž,³,è,Ä,ç,Ü,·B
- 4 f_fCf,,f<,ªŠ@—¹,µ,½,çA,·,®,É [OK] ,ðfNfŠfbfN,µ,Ü,·B
- 5 f,fff€,ª%ñü,ð§CEä,·,éó'Ô,É,È,Á,½,çŽó~bŠí,ð'u,«,Ü,·B'Éí,íA-ª%ª¹ó'Ô,É,È,Á,½,çAf,fff€,ª
%ñü,ð§CEä,µŽn,ß,½,Æ”»f,Ä,«,Ü,·B
,ç,ì,æ,æ,Èê±,Ä,àAf_fCf,,f<fAfbfv flfbfgf[fN,É,æ,éft[fU[-
¼,ÆfpfXf[fh,ìŠm”F,ªŠ)Žn,ª,è,Ä,©,çŽó~bŠí,ð'u,~,î^À'S,Ä,·B

fŠf_fCf,,f<,lŸ'è

,±,ì<@“\,ðŽg,æ,Æ□A'ì'ð,μ,½fGf“fgfŠ,Ö,ì□Ú'±,ªŽ, ”s,μ,½,Æ,«,É□Af_fCf,,f<fAfbfv
flfbfgf□□[fN,ªŽ©“@“l,ÉfŠf_fCf,,f<,·,é%ñ□”,ðĈ^'è,Ā,«,Û,·□B

Ž©“@fŠf_fCf,,f<<@“\,ðflf“ ,É,·,é,É,í

- 1 f_fCf,,f<fAfbfv flfbfgf□□[fN,ì [,»,ì'¼], ðfNfŠfbfN,μ□A[ft□[fU□[Ÿ'è] ,ðfNfŠfbfN,μ,Û,·□B
- 2 [f_fCf,,f<] f^fu,ì [fŠf_fCf,,f<,l%ñ□”] f{fbfNfX,Ā□A'ì'ð,μ,½fGf“fgfŠ,Ö,ìf_fCf,,f<,Ā□Ú'±
,ÉŽ, ”s,μ,½,Æ,«,ÉŽ©“@fŠf_fCf,,f<,·,é%ñ□”,ð'ì'ð,μ,Û,·□B
- 3 [fŠf_fCf,,f<,lŠÔŠu] f{fbfNfX,Ā□A□Ú'±
,lŽŽ□s,ÉŽ, ”s,μ,Ā,©,çŽŸ,ìf_fCf,,f<,ðŠ)Žn,·,é,Û,Ā,ì•b□”,ð'ì'ð,μ,Û,·□B'É□M'•'u,í□A,±
,ì'áz~ŽžŠÖ,ìŠÖ,É□AfŠf_fCf,,f<,l,½,β,ÉŽ©ĈÈfŠfZfbfg,μ,Û,·□BŠù'è'l,í□A15 •b,Ā,·□B,±,é,Ā,í•s□\
•ª,É□è□‡,í□AŸ'è'l,ð'á,«,μ,Ā,,¾,¾,ç□B,Û,½□A,à,Ā,Æ'Z,ç□Ÿ'è'l,É,·,é,±,Æ,à,Ā,«,Û,·□B,½,¾,μ□A,±
,ì'áz~ŽžŠÖ,ð'Z,·,é,Æ□A'É□M'•'u,ªŽ©ĈÈfŠfZfbfg,·,éŽžŠÖ,ðŠm•Û,Ā,«,È,,È,é%Ā”\□«,ª, ,è,Û,·□B
- 4 [□Ø'f,·,é,Û,Ā,ì'Ò,;ŽžŠÖ] f{fbfNfX,Ā□A%½,à□^—□,ª□s,í,é,È,ç□ó'Ô,ì,Æ,«,É□Ú'±
,ð□Ø'f,·,é,Û,Ā,ìŽžŠÖ,ðŽw'è,μ,Û,·□B,½,¾,μ□Af_fCf,,f<fAfbfv ft□[fo□[,ì•ù,É,à□Ú'±
,ð□Ø'f,·,é,Ÿ^fCf}□[,ªŸ'è,¾,è,Ā,ç,Û,·□B,±,ì,½,β□A,±,±,É'á,«,çf^fCf€fAfEfg'l,ðŸ'è,μ,Ā,ç
,½,Æ,μ,Ā,à□AŸ'è,μ,½ŽžŠÖ,ªĈo%β,·,é,Û,Ā,í□Ú'±,ª□Ø'f,¾,è,ç,Æ,íĈĀ,è,Û,¹,ñ□B,±,±
,ÉŸ'è,μ,½ŽžŠÖ,ªĈo%β,·,é'Ö,É□Aft□[fo□[,ì•ù,Āf^fCf€fAfEfg,ª”□¶,μ□Aft□[fo□[.©,ç□Ú'±,ð□Ø'f,¾,è,é
%Ā”\□«,à, ,é,©,ç,Ā,·□B
- 5 '€□ì,ð□—¹,μ,½,ç□A[OK] ,ðfNfŠfbfN,μ,Û,·□B

fGf“fgfŠ,Ì’Ç%ÁA•ÒWPA•i□»„ð□s,α

- f_fCf„f<fAbfv flfbfgf□□[fN,ÁAŽŸ,ì,ç,,é,©,ì’€□],ð□s,ç,Û,·□B
- “d~b’ ,ÉfGf“fgfŠ,ð’Ç%Á,·,é□é□#,í□A[□V<K] ,ðfNfŠfbfN,μ,Û,·□B
- “d~b’ fGf“fgfŠ,ð□C□³,·,é□é□#,í□A[„,ì’¼] ,ðfNfŠfbfN,μ,Û,·□B
- Šù’¶,lfGf“fgfŠ,ðfRfs□[μ,ÁV,μ,çfGf“fgfŠ,ð□□¬,·,é□é□#,í□A[„,ì’¼] ,ðfNfŠfbfN,μ□A[fGf“fgfŠ,Æf,fff€,lfvf□pfefB,ì•i□»] ,ðfNfŠfbfN,μ,Û,·□B

ISDN ,ì“d~b”Ô□†

ISDN %oňü,ð%ô,μ,ÁÚ’±,μ□A•i□” ,lf`ffff<,ðŽg,α,±,Æ,ð—
 v<□,·,é□é□#,í□AŠef`ffff<,ì“d~b”Ô□†,ðŽw’è,μ,È,¬,ê,î,È,è,Û,¹,ň□B,½,Æ,ì,í□A3 f`ffff<Žg,α,±,Æ,ð—
 v<□,·,é□é□#,í□A“d~b”Ô□†,ð 3 ,ÁŽw’è,μ,È,¬,ê,î,È,è,Û,¹,ň
 (Še”Ô□†,í□AfXfy□[fX,ð“ü,è,,ÉfRf□f“,Á<æ□Ø,è,Û,·)□B’Ê□í,lfGf“fgfŠ,ð’Ç
 %oÁA•ÒWPA,Û,½,í•i□»,·,é,Æ,«„Æ“¬,¶,æ,α,É□A[Ši-{] f^fu,ì [“d~b”Ô□†]
 f{fbfNfX,É“d~b”Ô□†,ð’}“ü,μ,Á,,¾,¾,ç□BŽŸ,É—á,ðŽì,μ,Û,·□B

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4 f`ffff<,ðŽg,Á,½□Ú’±,ð—v<□,·,é□é□#,í□A“d~b”Ô□†,ð 4 ,ÁŽw’è,μ,Û,·□BŽŸ,É—á,ðŽì,μ,Û,·□B

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’□ Žw’è,μ,½“d~b”Ô□†,æ,è,à’½,,lf`ffff<,ª ,é□é□#,í□A□ÁEä,ì”Ô□†,ðŽg,Á,Ä—]•ª,Éf`ffff<,Á,ì□Ú’±
 ,ªŽŽ,Ÿ,ç,è,Û,·□B’Ê□í□AISDN %oňü,í 1 %oňü,Á 2 ,Á,lf`ffff<,ðfTf|□[fg,μ,Á,ç,é,ì,Á□A1
 ,Á,ì“d~b”Ô□†,Á 2 ,Á,lf`ffff<,ðCEÄ,Ñ□o,·,±,Æ,ª,Á,«„Û,·□B,½,¾,μ□AISDN “d~b
 %oĩŽÐ,É,æ,Á,Ä,í□AŠef`ffff<,ÉCEÄ—L,ì“d~b”Ô□†,ðŠ,,,è“¬,Ä,È,¬,ê,î,È,ç,È,ç□é□#,à ,è,Û,·□BCE_
 ñ,μ,Á,ç,é ISDN <ÆŽÒ,É-â,ç□#,í,¹,Ä,,¾,¾,ç□B

ŠÖ~A□€-Ú

“d~b”Ô□†,ì□C□üŽq

f_fCf,,f<fAfbfv flfbfgf□□[fN,ðÄ□□-,.,é

f,fff€,,ð•ï□X,μ,½,è□A'•'u,ð'Ç%Á,μ,½,è□A,Ù,©,lfVfŠfAf< f□[fg,àf_fCf,,f<fAfbfv flfbfgf□□[fN,Á—~—
p,Ä,«,é,æ,æ,É□□□-,.,é□é□#,í□AfŠf,□[fg fAfNfZfX fT□[frfX,ðÄ□□□-,.,é•K—v,è, ,è,Ü,·□B

- 1 □V,μ,ç'•'u,ðfCf"fxfg□[f<,μ□AfRf"fsf...□[f^,ðÄ<N" @,μ,Ü,·□B
- 2 Windows NT ,lfRf"fgf□□[f< fpflf<,Á□A[flfbfgf□□[fN] fAfCfRf",ðf_fuf<fNfŠfbfN,μ,Ü,·□B
- 3 [fT□[frfX] f^fu,Á□A[Šf,□[fg fAfNfZfX fT□[frfX] ,ð'í'ð,μ□A[fvf□pfefB] ,ðfNfŠfbfN,μ,Ü,·□B
- 4 fŠf,□[fg fAfNfZfX—p,É□V,μ,çf□[fg,ð□□□-,.,é□é□#,í□A['Ç%Á] ,ðfNfŠfbfN,μ,Ü,·□B
- 5 [fŠf,□[fg fAfNfZfX fZfbfgfAfbfv] f_fCfAf□fO f{fbfNfX,Á□A□V,μ,ç'•'u—p,É□□□-,.,éf□[fg,ð'í'ð,μ□A[□□□-]
,ðfNfŠfbfN,μ,Ü,·□B
- 6 [f□[fgŽg—p,ì□□□-] f_fCfAf□fO f{fbfNfX,Á□A[f_fCf,,f<fAfEfg,ì,Ý]□A['...□M,ì,Ý]□A,Ü,½,í
[f_fCf,,f<fAfEfg,Æ'...□M] ,ì,ç, , ,é, ©,ð'í'ð,μ,Ü,·□B
- 7 [OK] ,ðfNfŠfbfN,μ□A[Šf,□[fg fAfNfZfX fZfbfgfAfbfv] f_fCfAf□fO f{fbfNfX,ì ['±□s] ,ðfNfŠfbfN,μ,Ü,·□B
- 8 [flfbfgf□□[fN] f_fCfAf□fO f{fbfNfX,ì [OK] ,ðfNfŠfbfN,μ□AfRf"fsf...□[f^,ðÄ<N" @,μ,Ü,·□B

fjbfjgff[]fN fvffjgRf<,iY'è

fjbfjgff[]fN fvffjgRf<,íA,ç,Á,½,ñ RAS fT[]fo[][,Æ,ìÚ'±,ªSm—§,³,è,½CEã[]ALAN
[]ä,ìŠeŽífT[]fo[][,Æ,ì'É[]M,ÉŽg,í,é,éfvffjgRf<,Á,·[]B,Ç,ìfvffjgRf<,ð'ì'ð,·,é,ì,æ,ç
,©,í,©,ç,È,ç,é[]±,í[]Aìfjbfjgff[]fNŠÇ—[]ŽÒ,É-à,ç[]±,í,¹,Ä,,³/4,³,ç[]B

PPP ,í[]Af_fCf,,f<fAfbfv fjbfjgff[]fN,ÉŽg,í,é,é•W[]€“ì,È WAN fvffjgRf<,Á,·[]BPPP fvffjgRf<,ðŽg,ª
,Æ[]AfjCfefBfu,ì TCP/IP fAfvfŠfP[]fVf#“[]AIPX fAfvfŠfP[]fVf#“[]A,“,æ,Ñ NetBEUI
fAfvfŠfP[]fVf#“,ðŽÀ[]s,Á,«,Ü,·[]BSLIP ,íCEÄ,ç<KŠi,Á,·[]Bf_fCf,,f<fAfbfv fjbfjgff[]fN fNf
%ofCfAf“fg,Á,ì[]ASLIP fT[]fo[][,É,à[]Ú'±,Á,«,é,æ,ª,É[]ASLIP fvffjgRf<,à'ñ<Y',³,è,Ä,ç,Ü,·[]B

fjbfjgff[]fN fvffjgRf<,ð'ì'ð,·,é,É,í

- 1 f_fCf,,f<fAfbfv fjbfjgff[]fN,ì [fT[]fo[][] f^fu,Á[]Af_fCf,,f<[]æ,Æ,·,é_fCf,,f<fAfbfv fT[]fo[][,ìŽí—
p,ð'ì'ð,µ,Ü,·[]B[]Ú'±[]æ,ìfT[]fo[][,ìŽí—p,ª,í,©,ç,È,ç,é[]±,í[]A[PPP] ,ð'ì,ñ,Á,,³/4,³,ç[]BSLIP
fT[]fo[][,ðCEÄ,Ñ[]o,·[]é[]±,í[]A[SLIP] ,ð'ì,Ñ,Ü,·[]B<[]Efo[]fWf#“,ì Microsoft RAS (Windows NT 3.1 ,“,æ,Ñ
LAN Manager) ,ÁŽg,í,é,Ä,ç,½ Microsoft RAS fvffjgRf<,ðŽg,ª•K—v,ª, ,é[]é[]±,í[]A[RAS] ,ð'ì,ñ,Á,
,³/4,³,ç[]B
- 2 [fjbfjgff[]fN fvffjgRf<] ,Á[]ATCP/IP[]AIPX[]A,Ü,½,í NetBEUI ,ð'ì'ð,µ,Ü,·[]B
- 3 PPP ,Ü,½,í SLIP ,Á TCP/IP ,ðŽg,ª[]é[]±,í[]AŽ©•ª,ÁŽw'è,µ,½ IP fAfhfCEfX,ðŽg,ª,æ,ª,ÉŽw'è,·,é,±
,Æ,à,Á,«,Ü,·[]B,±,é,ð[]s,ª,É,ì[]A[TCP/IP] ,ìY'è) ,ðfNfŠfjbfN,µ,Ü,·[]B
- 4 f\ftfgfEjFfA,É,æ,éff[]f^³[]k,ð—LCEø,É,·,é,É,ì[]A[f\ftfgfEjFfA,É,æ,é³[]k,ð[]s,ª] f`fFjbfN
f{fjbfNfX,ðfj#“ ,É,µ,Ü,·[]B
- 5 PPP ,ì[]V<@“\,ð—LCEø,É,·,é,É,ì[]A[PPP LCP Šg'£,ðŽg,ª] f`fFjbfN f{fjbfNfX,ðfj#“ ,É,µ,Ü,·[]B,±
,è,ç,ìŠg'£<@“\,ì[]ACEÄ,ç PPP f\ftfgfEjFfA,ðŽg,Á,Ä,ç,éfT[]fo[][,ðCEÄ,Ñ[]o,µ,½,Æ,«,É,ì-à'è,ð”[]¶,³,¹,éCE
´^ö,Æ,É,é[]é[]±,ª, ,è,Ü,·[]BCEp'±,µ,Ä-à'è,ª”[]¶,·,é[]é[]±,ì,Ý[]A[PPP LCP Šg'£,ðŽg,ª] f`fFjbfN
f{fjbfNfX,ðfjft,É,µ,Ä,,³/4,³,ç[]B
,±,ìf`fFjbfN f{fjbfNfX,ðfjft,É,·,é,Æ[]ALCP ,í[]A PPP ,ì LCP f\fsfvfG[]fVf#“ ,É,“,·,é Time-Remaining
fpfPjbfjg,Æ Identification fpfPjbfjg,ì'—[]M[]A,“,æ,ÑfR[]f<fofjbfN—v<[],ð[]s,í,È,,È,è,Ü,·[]B

,æ,□q,Ě,ç,ê,éŽž-â,Æ,»,ì%oň“š

1. Žg—p,μ,Ä,ç,éf,fff€,âf_fCf,,f<fAfbfv flfbfgf□□fN,Ā,Í<@”\,μ,Ü,¹,ň□B,È,^o,Ā,·,© ? %oň“š

2. fT□[fo□[,É□Ú'±,Ā,«,Ü,¹,ň□B,È,^o,Ā,·,© ? %oň“š

3. □Ú'±,μ,æ,κ,Æ,μ,½,Æ,±,ë□AfT□[fo□[,^a%ž“š,μ,È,ç,Æ,ç,κf□fbfZ□[fW,^a•\Ž|,³,ê,Ü,μ,½□B,Ç,κ,·,ê,Î□Ú'±,Ā,«,Ü,·,© ? %oň“š

4. f,fff€,ì'É□M'—“x (bps) ,^a•K, Žw'è,μ,½'—“x,æ,è,à'á'—,É,È,è,Ü,·□B,È,^o,Ā,·,© ? %oň“š

5. flfbfgf□□fN□ã,ìfT□[fo□[,Æ,ìfZfbfVf†f“,^a□Ø'f,³,ê,½,Ü,Ü,Ā,·□B,Ç,κ,·,ê,ÎfZfbfVf†f“,ðŠm—š,Ā,«,Ü,·,© ? %oň“š

6. ^Ü□í□Ø'f,³,ê,½□ê±,Í□A,Ç,κ,·,ê,Î,æ,ç,Ā,·,© ? %oň“š

7. □Ú'±,μ,æ,κ,Æ,·,é,Æfn□[fhfEfffA fGf%□□[,^a“□¶,μ,Ü,·□B,È,^o,Ā,·,© ? %oň“š

wWindows NT fn [fhfEjFfACEÝŠ·«fŠXfgx,ÂACEÝŠ·«,ì, ,éf,fff€,ì^ê—,ð'²,x,Ä,,¾,¾,çB

Žg—p,μ,Ä,ç,éf,fff€,ª,±,ì^ê—,É, ,éêê±,íAf,fff€,ª³,μ,çfj[fjg,É³í,ÉÚ'±,¾,ê,Ä,ç,é,©,Ç,æ
,©,ðŠm" F,μ,Ä,,¾,¾,çB

Žg—p,μ,Ä,ç,éf,fff€,ª,±,ì^ê—,É,É,çêê±,íAMODEM.INF ftf@fCf<,É,» ,íf,fff€—p,ífZfNfVfþf“,ð'Ç
%Á,μ,È, ,ê,î,È,è,Û,¹,ñB

MODEM.INF ,ÉV,μ,çZfNfVfþf“,ð'Ç%Á,·,é,É,Í

1. MODEM.INF ,ìfobfNfAfbfv,ðŽæ,è,Û,·B
2. ftf@fCf<“à,ÉŠù,É<Lq,¾,ê,Ä,ç,éfZfNfVfþf“,ì,Ç,ê,©,ðfRfs[l,μAftf@fCf<,ìÁCEã,É'Ç%Á,μ,Û,·B
3. fZfNfVfþf“-¾,ðŽg—p,μ,Ä,ç,éf,fff€,ì-¾'O,É·íX,μ,Û,·B
4. f,fff€,ìf}fj...fAf<,ðŽQAE,μ,È,ª,çC³,ð%Á,ì,Û,·B
5. %¾,©-â'è,ª, ,éêê±,íAf,fff€,ì»'çCE³,É-â,ç±,í,¹,Ä,,¾,¾,çB

fŠf, [fg fAfNfZfX fT [fo [, aŽA s, 3, e, A, c, E, c % o A " \ < , a, , e, U, - B f v f x f e f e Š C - Ž O, E -
â, c †, í, 1, A AfT [fo [, aŽA s, 3, e, A, c, e, ©, Ç, x, ©, Šm " F, μ, A, , 3/4, 3, c BfT [fo [, a' â Ž ~, μ, A, c
, é ê †, í A Š C - Ž O, a f g f % o [f f o, A Š A, f f o, Š 2, x AfT [f r f X, a' â Ž ~, μ, 1/2 - -
R, Š 2, x, A, ©, ç AfT [f r f X, Š A Š J, μ, È, -, e, í, È, è, Ü, 1, ñ BfT [f r f X, aŽA s, 3, e, A, c, é ê †, í A Š C -
Ž O, í A, U, ©, í Š f, [fg f [f N f X f e [f v f † f " , a 3 í, É U ±, A, <, A, c, e, ©, Ç, x
, ©, Š 2, x, È, -, e, í, È, è, Ü, 1, ñ B, U, ©, í f N f % o f C f A f " f g, a U ±, A, <, A, c, é ê †, í A, ±, í f N f % o f C f A f " f g
f [f N f X f e [f v f † f " , É C E A - L, í - â ' è, a, , e, A Ž v, í, e, Ü, - B

- fT [fo [, aŽA s, 3, e, A, c, é ê †, í A Ž Y, ì, æ, x, É C E ^ ö, a [, í, ç, e, Ü, - B
- - L C E ø, É f t [f u [f A f f f e f " f g, Ü, 1/2, í Š f, [fg f A f N f Z f X, í < - % o A, a, , e, Ü, 1, ñ B
- f f C f, , f <, μ, 1/2 " Ó †, a Š Ó ^ á, A, A, c, e, © A, Ü, 1/2, í f f C f, , f <, μ, 1/2 " Ó †, í [3, μ, c, -, e, Ç, à A 9 , È, Ç, Ì Š O ü " -
M " Ó †, Š f f C f, , f <, μ - Y, e, A, c, Ü, μ, 1/2 B
- Ž g - p, μ, A, c, é f, f f f € , í AfT [fo [, í f, f f f € , A f f f S f v f g [f v f † f " , A, <, Ü, 1, ñ B f N f
% o f C f A f " f g, A f T [fo [, A " , ¶ < @ Ž í, í f, f f f € , Š Ž g, A, A, Y, A A - â ' è, a % o Š C E ^ , , e, ©, Ç, x, ©, Š 2, x, A, , 3/4, 3, c B
- f, f f f € , í P [f u f <, É - â ' è, a, , e, Ü, - B " A, É A ' 1/2, , í f } f e f X, É • t ' @, μ, A, c, e 9 f s f " , ©, ç 25
f s f " , Ö, Ì • Í Š • Sí, í Ž g, í, È, c, æ, x, É, μ, A, , 3/4, 3, c B, ±, e, ç, Ì • Í Š • Sí, í t, É, í Af, f f f € M †, Š " ' - , μ, È, c, à, ì, à, , e, Ü, - B Š m Ž A
, É % o ^ - p, A, <, e, æ, x, É A • Í Š • Sí, í A, ±, Ì - p " r é - p, É " » ' c, 3, e, 1/2, à, Ì, Š Ž g, A, A, , 3/4, 3, c B u f P [f u f <, Ì -
v C E [v, Š Ž Q A E, μ, A, , 3/4, 3, c B
- " d ~ b % o ñ ü (, 1/2, A, í, í Af z f e f <, Ì " % o @, É, c, é ê †, È, Ç) , a A Ž g - p, μ, A, c, é f, f f f € , Ì É M ' - " x, É ' í
% o Ž, A, <, A, c, Ü, 1, ñ B ' É M ' - " x, Š % o 9 , °, e, © A ' 1/4 ü Š O ü, É U ±, μ, A, , 3/4, 3, c B
- Ü, A, È, ñ, Ç, í f, f f f € , í Af A f í f o, Ì " d ~ b % o ñ ü, A, μ, © < @ " \, μ, Ü, 1, ñ B f A f í f o, Ì " d ~ b % o ñ ü, Š Ž g, A, A, c
, e, ©, Ç, x, ©, Š m " F, μ, A, , 3/4, 3, c B, Ü, 1/2, í A f f f W f ^ f < " d ~ b % o ñ ü, Š Ž g, A, A, c, é ê †, í AfT [fo [, A f N f
% o f C f A f " f g, Ì - 1/4 • ù, A f f f W f ^ f < f, f f f € , Š Ž g, A, A, c, e, ±, A, Š m " F, μ, A, , 3/4, 3, c B

ŽŸ, ð, æ, ɣ, ÈĈ, ˆ, ˚, ˚, ˚, ç, ê, Ü, ˚, ˚

- Žg—p, μ, Ä, ç, é, f, fff€, ˚A, ‘, ‘ÉM, Å, ÍT[f, f, fff€, ÆĈŸŠ˚, ˚, ˚, è, Ü, ˚, ˚
 - “d~b%˚˚ü, ÉĀ“d<C, É, æ, éfmfCfY, ˚˚, ˚, ˚, ÅAf, fff€, ˚, ˚, ç‘ÉM’—“x, ÅÚ˚±, Å, <, Ü, ˚, ˚
 - fNf%˚fCfAf“fg, ÆfT[f, f, fff€, ÌŠ, É%˚˚, ç, ©, ÌĈŠ˚˚, ˚, ˚, èA, ˚, ˚, Ì, ˚, ßf, fff€
- ˚, ˚, ç‘ÉM’—“x, ÅÍfSfVfG[fVfɣ“, Å, <, Ü, ˚, ˚

ŽŸ, Ì, Ç, ÿ, Ê, ©, Ì, Í, Î, Î, Û, @, Ž, Ž, µ, Ä, , ¾, ¾, Ç, Ç, B

- f, fff€, , æ, Ñ “d~b%oñü, ð³í, É<@“\, µ, Ä, Ç, é, ©, Ç, µ, ©, ðŠm”F, µ, Ä, , ¾, ¾, Ç, Ç, B “d~b%oñü, É, , Ü, è, É’½, -, Ì, fmfCfY, ð”Ç, µ, Ä, Ç, é, Æ[AfZfbfVf#f”, ÉŽ, ”s, , éêê# , ð, , è, Ü, ·B[f][fg, Ì, Ó’Ô] f_fCfAfO f{fbfNfX, ð•\ Ž, , é, Æ[A, ±, Ì, æ, µ, È, Ó<µ, ð”Ç, µ, Ä, Ç, é, ©, Ç, µ, ©, ðŠm”F, , é, ±, Æ, ð, Ä, «, Ü, ·B, à, æ^è”xf_fCf,, f<, µ, Ä, , ¾, ¾, Ç, Ç, B
- Ç, Ç, B, Û, ©, Ì, fNfXfe[fVf#f”, Ä, à” , Ç, æ, µ, È-â’è, ð”Ç, µ, Ä, Ç, éêê# , Ì, AfT[fO[f, Ì, fAfvfSfP[fVf#f”, ©, fn[fhfEjfFA, È-â’è, ð”Ç, µ, Ä, Ç, é%oÄ”\« , ð, , è, Ü, ·B, » , µ, Ä, È, Ç, éêê# , Ì, A, ±, Ì, fNfXfe[fVf#f”, ÉÆÄ—L, Ì-â’è, ð, , è, Ü, ·B
- ŠÇ—Ž, È^È—Š, µ, Ä, AfŠf, [fg fAfNfZfX fT[fO[f, Æ-Ú”Ì, Ì, fT[fO[f, Ì, Š, ð, ð, —“Ì, ÈŠmŽÀ, È, Ú’ ± , ¾, è, Ä, Ç, é, ±, ðŠm”F, µ, Ä, à, Ç, Ä, Ä, , ¾, ¾, Ç, Ç, B

ŽŸ, ì, ç, , ê, ©, Ì, Í, Î, Ñ, Ò, Õ, Ž, Ž, μ, Ä, , ¾, ¾, ç, □, B

- “d~b%ñü,ÉfLfffbf`fzf“<@\,ª, ,é,©,Ç,æ,©,ð¹²,×,Ä,,¾,¾,ç□BfLfffbf`fzf“<@\,ª, ,é□é□#,Í□A,»ê,ð-³CEø,É,μ,Ä,,¾,¾,ç□BfLfffbf`fzf“<@\,ð-³CEø,É,·,é•û-@,É,Ä,ç,Ä,Í□ACE_-ñ,μ,Ä,ç,é“d~b%ïžĐ,É-â,ç□#,í,¹,Ä,-¾,¾,ç□B
- ,à,æ^è“xf_fCf,,f<,μ,Ä,,¾,¾,ç□B%½,à□^—□,ð□s,í,È,ç,Û,Û^è’èžžšŒ,ªCEo%ß,μ,½,½,ß□Afšf,□[fg fAfNfZfX fT□[fo□[.ª□Ú’±,ð□Ø’f,μ,½%°Å“\□<,ª, ,è,Û,·□B
- ‘N,©,ª“d~b,ìCEÄ,Ñ□o,μ,É’Í,μ,Äžó~bSí,ðžæ,Ä,Ä%ž“š,μ,È,©,Ä,½,©,Ç,æ,©,ð¹²,×,Ä,-¾,¾,ç□B□[,ªžó~bSí,ðžæ,é,Æ□A□Ú’±,íž©“®“l,É□Ø’f,³,è,Û,·□B
- f,fff€,ìfP□[fuf<,ª³,μ,□Ú’±,³,è,Ä,ç,é,±,Æ,ðšm”F,μ,Ä,,¾,¾,ç□B

ŽŸ,ì,ç,,ê,©,ì'í^•û-@,đŽŽ,μ,Ä,,¾,¾,ç□B

- fŠf.□[fg fAfNfZfX fT□[fo□[,ŽÄ□s,¾,ê,Ä,ç,È,ç%oÄ"\□«,^a, ,è,Ü,·□BfVfXfef€ŠÇ—□ŽÒ,É^È—Š,μ,Ä□AFT□[fo□[,ŽÄ□s,¾,ê,Ä,ç,é,±,Æ,đSm" F,μ,Ä,,¾,¾,ç□B
- Žg—p,μ,Ä,ç,éf,fff€,□A fŠf.□[fg fAfNfZfX fT□[fo□[,ìf,fff€,Æ□³□í,ÉfìfSfVfG□[fVf#f",Ä,«,È,ç%oÄ"\□«,^a, ,è,Ü,·□B'É□M'—"x,đ%oo°,Ä,,¾,¾,ç□B□uf,fff€,ì<@"\,đ□Y'è,·,é□v,đŽQ□Æ,μ,Ä,,¾,¾,ç□B
- Žg—p,μ,Ä,ç,éfRf"fsf...□[f^,ìfVfSfAf< f□[fg,□A'ì'đ,μ,½'É□M'—"x,É'í%ož,Ä,«,È,ç%oÄ"\□«,^a, ,è,Ü,·□Bf□[fg,ì□%Sú'É□M'—"x,đ%oo°,Ä□Ú'±,μ,Ä,,¾,¾,ç□B□uf,fff€,ì<@"\,đ□Y'è,·,é□v,đŽQ□Æ,μ,Ä,-¾,¾,ç□B

ŽŸ,ì,ç,,ê,©,ì'í^•û-@,đŽŽ,μ,Ä,,¾,¾,ç□B

- f,fff€,É“dCE¹,â“ü,Á,Ä,ç,é,±,Æ,đŠm”F,μ,Ä,,¾,¾,ç□Bf,fff€,ì“dCE¹,â□Ø,ê,Ä,ç,½□ê□#,í□A“dCE¹,đ“ü,ê,Ä,©,çf_fCf,,f<,μ'¼,μ,Ä,,¾,¾,ç□B
- f,fff€,ì“dCE¹,â“ü,Á,Ä,ç,½□ê□#,í□AWindows NT ,ìfnfCfp□[f^□[f~fif<,đŽg,Á,Äf,fff€,â□³□í,É<@“\ ,·,é,©,Ç,æ,©,đfefXfg,μ,Ä,,¾,¾,ç□B□uf,fff€,đfefXfg,·,é□v,đŽQ□Æ,μ,Ä,,¾,¾,ç□B
- f,fff€,âfnfCfp□[f^□[f~fif<,Á,í□³□í,É<@“\,·,é,í,É□Af_fCf,,f<fAfbfv flfbfgf□□[fN,Á,í□³□í,É<@“\ ,μ,È,ç□ê□#,í□A,“,»,,ç,□Af,fff€,ÆfRf“fsf...□[f^,í□U'±,ÉCEYS·□«,ì,É,çfP□[fuf<,âŽg,í,ê,Ä,ç,Û,·□BCEYS·□«,ì, ,éfP□[fuf<,đŽg,Á,Ä,,¾,¾,ç□B□ufP□[fuf<,í—vCE□□v,đŽQ□Æ,μ,Ä,,¾,¾,ç□B

fVfŠfAf< f|[]fg

COM1 ,Æ COM3 ,í[]AŠ,,è[]ž,ÝfCEfxf< (IRQ) 4 ,ð<α—L,·,é,±,Æ,É'[]^Ó,μ,Ä,,¾,¾,ç[]B,Ü,½[]ACOM2 ,Æ COM4 ,í[]AŠ,,è[]ž,ÝfCEfxf< (IRQ) 3 ,ð<α—L,μ,Ü,·[]B,±,ì,½,β[]AfVfŠfAf< Ê[]M,É COM1 ,Æ COM3 ,ð“~Žž,ÉŽg,Á,½,è[]ACOM2 ,Æ COM4 ,ð“~Žž,ÉŽg,Á,½,è,·,é,±,Æ,í,Ä,«,Ü,¹,ň[]B,½,Æ,í,í[]ACOM1 ,ðf_fCf,,f<fAfbfv flfbfgf[][]fN,ÉŽg,ç[]ACOM3 ,ðfnfCfp[]f^[]f~fif<,ÉŽg,α,±,Æ,í,Ä,«,Ü,¹,ň[]B f}fEfX,ð[]Af_fCf,,f<fAfbfv flfbfgf[][]fN,â Windows NT ,lfnfCfp[]f^[]f~fif<,È,Ç,ì,»,ì'¼,ìVfŠfAf< Ê[]MfVf[]fOf %of€,,Æ,ç,Á,μ,â,ÉŽg,α[]ê[]‡,É,à[]A,±,ì<K'¥,í“- ,Ä,í,Ü,è,Ü,·[]B ^ê•ù[]ADigiBoard fVfŠfAf< f|[]fh,È,Ç,lfcf“fejŠWfFf“fg fVfŠfAf< fAf_fvf^ f|[]fh,ðŽg,α[]ê[]‡,í[]A,±,ì<K'¥,í“- ,Ä,í,Ü,è,Ü,¹,ň[]B

ISDN ,ÉŠÖ,·,éfgf%ofuf<fVf...[]fefBf"fo

ISDN %oňü,Áf_fC,,f<,μ,Ä,ç,ÄÜ'±,ÉŽ,"s,·,é,ÆA"%ož"š,ª, ,è,Ü,¹,ňB" ,Æ,ç,xfGf%o[] ffbfZ[]fW,ª\ Ž,³,è,Ü,·B,±,lf[]fbfZ[]fW,ª\Ž,³,è,éCE´^ö,É,íAŽŸ,ì,ç,, ,è,©,ì·s<ì[]±,ª[]l,ì,ç,è,Ü,·B

- fŠf,[]fg fAfNfZfX fT[]fo[],ªA<N"®,³,è,Ä,ç,È,ç,©A,Ü,½,lf,ff€,ªÜ'±,³,è,Ä,ç,È,ç,Æ,ç,ç-—R,Á %ož"š,μ,Ü,¹,ň,Ä,μ,½BfVfXfef€SÇ—ŽÖ,É-â,ç[]±,í,¹,Ä,,¾,¾,çB
- %oňü,ªŽg—p't,Ä,·B
- Žg—p,μ,Ä,ç,éfn[]fhfEfffA,É-â'è,ª, ,è,Ü,·BISDN fj[]fh,ª[]³,μ,fCf"fXfg[]f<,"æ,Ñ[]-³,è,Ä,ç ,é,©,Ç,ª,©,ðŠm"F,μ,Ä,,¾,¾,çB
- fmfCfY,ª½,ç[]AÜ'±,ÉŠ,,è[]ž,Ý,ª, ,Á,½,È,çA%oňü,ìó'Ó,ª,æ,, ,è,Ü,¹,ň,Ä,μ,½B,μ,î,ç,- ,μ,Ä,©,ç,à,ª^ê"x_fC,,f<,μ,Ä,¾,¾,çB
- [ISDN ,ì[]-] f_fCfAf[]fO f{fbfNfX,Á'ì'ð,μ,½%oňü,ìŽí—p,lfSfVfG[]fVf#",ðs,ª,± ,Æ,ª,Á,«,È,©,Á,½,½,ßA[ISDN ,ì[]-] f_fCfAf[]fO f{fbfNfX,Á'ì'ð,μ,½%oňü,ìŽí—p,Á,ìÜ'±,ðŠm— s,Á,«,Ü,¹,ň,Ä,μ,½B
- ISDN ,ìèðŠ-Ý"ö,ª[]- ,Ý[]±,Á,Ä,ç,é%oÄ"[]«,ª, ,è,Ü,·B,μ,î,ç,,μ,Ä,©,ç,â,è'¼,μ,Ä,,¾,¾,çB

,±,è,ç,ì,ª,ìACE´^ö,Æ,È,Ä,Ä,ç,é%oÄ"[]«,ª, ,é[]€-Ü,É,Ä,ç,ÄŠm"F,μ,Ä,,¾,¾,çB- â'è"·ª,ðC[]³,μ,½,çA,à,ª^ê"x"Ô[]t,ðf_fCf,,f<,μ,Ä,,¾,¾,çB

X.25 ,ÉŠÖ,·,éfgf%ofuf<fVf...□[fefBf“fo

- 1 f_fCf,,f<fAfbfv PAD ,ð%oi,μ,Ä□Ú'±,·,é,Æ□AFT□[fo□[,ª•K, ,fNf%ofCfAf“fg,ì”F□Ø,ÉŽ, ”s,μ,Ü,·□B%oðCE^□ô
- 2 □Ú'±,ÍŠm—š,ª,è,Ü,·,ª□Aflfbfgf□□[fN fhf%ofCfu,Æ,ì□Ú'±,ª%oð□œ,ª,è□AfZfbfvf#f“ ,ª—
Ž,¿,½,è□Aflfbfgf□□[fN fGf%o□[,ª”□¶,μ,½,è,μ,Ü,·□B%oðCE^□ô
- 3 ftf@fCf<,ì“]’—’t,É□A•p”É,É “flfbfgf□□[fN fhf%ofCfu,ª□Ø’f,ª,è,Ü,μ,½” ,Æ,ç,xfGf%o□[f□fbfZ□[fW,â
“flfbfgf□□[fN fhf%ofCfu,ì,à,æ’¶□Ý,μ,Ü,¹,ñ” ,Æ,ç,xfGf%o□[f□fbfZ□[fW,ª•Ž!,ª,è,Ü,·□B%oðCE^□ô
- 4 MODEM.INF , ,æ,Ñ PAD.INF ,É□V,μ,□i□¬,μ,½fGf“fgfŠ,ª<@“\,μ,Ü,¹,ñ□B%oðCE^□ô
- 5 f_fCf,,f<fAfbfv PAD ,É□Ú'±,ª,è,Ä,ç,é,ff€e,ª□A-{-^,æ,è,à’á’¬,Å□Ú'±,μ,Ü,·□B%oðCE^□ô

fŠf.[]fg fAfNfZfX fT[]fo[][,aŽÀ[]s,³,è,Ä,ç,é,ì,É[]AfNf%ofCfAf“fg,a X.25 fXf}[]fg fj[]fh,Ü,½,ÍŠO•” PAD ,đ
%oî,μ,ÄfT[]fo[][,É'¼[]Ú[]Ú'±,Ä,«,É,ç[]ê[]#,í[]Af_fCf,,f<fAfbfv PAD ,ì X.3 fpf
%of[]f^,Ü,½,ÍvfŠfAf<[]Ý'è,aŠÔ^á,Á,Ä,ç,é%oÄ"[]«,a, ,è,Ü,·[]BŠÇ—[]ŽÒ,É-â,ç[]#,í,¹,Ä[]A[]wflfbfgf[]fN
fKfCfh[]x,ì[]u'æ 9 []í[]@X.25 PAD fTf|[]fg[]v,É, ,é^è—,đŽQ[]Æ,μ,Ä[]³,μ,ç[]Ý'è,đŠm" F,μ,Ä,,³/4,³,ç[]B

fŠf.□[fg fAfNfZfX fT□[fo□[,ì□ê—p%ñ□ü,ª□—ŽG,μ,Ä,ç,é,±,Æ,ªCE´^ö,¾,ÆŽv,í,ê,Ü,·□BŠÇ—□ŽÒ,í□AfNf
%ofCfAf“fg,ªf_fCf,,f<fCf“,ÉŽg,κ,·,×,Ä,ì'É□M'—“x,Ä,ì,·,×,Ä,ì COM f□[fg,ìŽg—p,ð□ACE»□Ý,ì□ê—p
%ñ□ü,ì'É□M'—“x,ÄfTf□[fg,Ä,« ,é,±,Æ,ðŠm”F,μ,È,·,è,ì,È,è,Ü,¹,ñ□B

,½,Æ,ì,í□A4 'ä,ìNf%ofCfAf“fg,ª 9600bps ,Ä (f_fCf,,f<fAfbfv PAD ,ðŽg,Ä,Ä) □Ú'±,·,é□ê□‡,í□AfT□[fo□[‘κ
 ,ì□ê—p%ñ□ü,É,í 38,400bps (9600bps ,ì 4 " {) ,ì'É□M'—“x,ª•K—v,Ä,·□B□ê—p%ñ□ü,ì'Ñ^æ•□,ª□\
•ª,Ä,È,ç□ê□‡,í□Af^fCf€fAfEfg,ª”□¶,μ□A□Ú'±,μ,Ä,ç,éfNf%ofCfAf“fg,ìfpftfH□[f}f“fX,ª'á%º,·,é□ê□‡,ª, ,è,Ü
 ,·□B,±,ì—á,Ä,í□AfŠf,□[fg fAfNfZfX fT□[frfX,Ä,·,×,Ä,ì'Ñ^æ•□,ðŽg,κ,±,Æ,ð'O'ñ,Æ,μ,Ä,ç
 ,Ü,·□B'Ñ^æ•□,ð,Ü,©,ì—p“r,Æ<κ—L,·,é□ê□‡,í□A□Ú'±,Ä,« ,é□” ,í,à,Ä,Æ□,È,,È,è,Ü,·□B

X.25 fXf}[]fg fj[]fh,Å[]Aflfbfgf[]fN fpf%of[]f^,ìfSfVfG[]fVf#",ð—LCEø,É,μ,Û,·[]B,±,ì-
à'è,í[]Aft[]fo[][]Aflfbfgf[]fN[]A,,"æ,ÑfNf%ofCfAf"fg,ì X.25 f\ftfgfEfffA,Å[]A'—
[]MfEfBf"fhfE,ÆŽó[]MfEfBf"fhfE,ìfTfCfY,È,Ç,ì X.25 fpf%of[]f^,ªCEÝ,ç,É^Ù,È,é[]ê[]#,É"[]¶,μ,Û,·[]B
fNf%ofCfAf"fg,ì X.25 f\ftfgfEfffA ('¼[]Ú X.25 []Ú'±,ðŽg,Á,Ä,ç,é[]ê[]#),Æft[]fo[],ì X.25 f\
ftfgfEfffA,Åflfbfgf[]fN fpf%of[]f^,ìfSfVfG[]fVf#",ð—
LCEø,É,·,é,Æ[]Aft[]fo[][]Aflfbfgf[]fN[]A,,"æ,ÑfNf%ofCfAf"fg,ª<ª'É,μ,ÄfSfVfG[]fVf#",³,ê,½ X.25
flfbfgf[]fN fpf%of[]f^,ðŽg—p,Å,«,é,æ,ª,É,È,è,Û,·[]B

MODEM.INF ,ÅA'¼ÚÚ'±—p, ,æ,ÑŠO•" PAD —p,ì,Ù,©,ìfGf"fgfŠ,đ'²,xA,»,±,É<Lq,³,ê,Ä,ç
,éfRf"fg,đŠm"F,μ,Ä,,¾,³,çB%ñüfAfjf%ofCfU,âf^ [f~fjf< fv fOf%of€,đŽg,Á,Ä PAD —p,ì
%ž"š,đ'²,x,é•K—v,ª, ,éê,à, ,è,Ü,·Bf_fCf,,fAfbfv PAD fGf"fgfŠ,ìê,íAPAD.INF ,É<Lq,³,ê,Ä,ç
,éfGf"fgfŠ,đ—á,Æ,μ,ÄŽg,çA,»,±,É<Lq,³,ê,Ä,ç,éfRf"fg,©,çqf"fg,đ"¾,Ä,,¾,³,çB

f,ff€„öfZfbfgfAfbfv fvf□fOf%of€„ì^è—,É•\Žì,³,è,Ä,ç,éCEÝŠ·□<,ì, ,é<@Ží,ÉCEđŠ·,μ,Ä,,³/₄,³,ç□B

,Í,Ń,Œ,É

f_fCf,,f<fAfbfv flfbfgf□□[fN,í□ARAS ,lfNf%ofCfAf“fg”Å,Å□Af_fCf,,f<fAfbfv fT□[fo□[Æ,ì□Ú’±
,ÉŽg,í,ê,Û,·□B[f_fCf,,f<fAfbfv flfbfgf□□[fN] fAfCfRf“,í□Af}fC fRf“fsf...□[f^“à,“,æ,Ń [fXf^□[fg] f□fjf...□[,ì
[fAfNfZfTfŠ] ftfHf<f_É, ,è,Û,·□B

1 f_fCf,,f<fAfbfv flfbfgf□□[fN,Å□A[□V<K□ì□-] ,ðfNfŠfbfN,μ,Ä□V,μ,ç“d~b’ fGf“fgfŠ,ð□ì□-,·,é,©□A,Û,½,í
[.,>,ì’¼] ,ðfNfŠfbfN,μ□A[fGf“fgfŠ,Æf,fff€,ìfvf□fpfefB,ì•ò□W] ,ðfNfŠfbfN,μ,Û,·□B

2 fŠf,□[fg□Ú’±,ðŠm—š,·,é,É,í□A[f_fCf,,f<] ,ðfNfŠfbfN,μ,Û,·□B

flfbfgf[]fN,Æ[]Ú'±,·,é

flfbfgf[]fN,Æ[]Ú'±,·,é,É,í

1 f_fCf,,f<fAfbfv flfbfgf[]fN,Å[]A[]Ú'±[]æ,lfGf"fgfŠ,đ'í'đ,μ[]Af_fCf,,f<,μ,Û,·[]B

2 "ü—í,đ,[]B,ç,ê,½[]ê[]±,í[]A"[]F[]Ø—p,lfA[]f[]f[]E[]f"fg-¼[]A[]f[]p[]f[]X[]f[]f[]h[]A,,æ,Ñfhf[]fCf",đ [[],,Ö,ì[]Ú'±] f_fCfA[]f[]O f{fbfNfX,É"ü—í,μ,Û,·[]B

'[] [[],,Ö,ì[]Ú'±] f_fCfA[]f[]O f{fbfNfX,É"ü—í,·,éfhf[]fCf"-¼,í[]A[]Ú'±,·,é Windows NT RAS f[]f[]f[]o[][,^'@,·,é Windows NT fhf[]fCf",Å,È,·,ê,í,È,è,Û,¹,ñ[]B,±,±,É"ü—í,·,é,ì,í[]A[]P[]P[]f[]v[]f[]o[]f[]Cf_,â SLIP f[]v[]f[]o[]f[]Cf_,@,ç—^,ì,ç,ê,½ DNS fhf[]fCf"-¼,Å,í,è,è,Û,¹,ñ[]B,½,Æ,ì,í[]A[]www.halcyon.com ,Æ,ç ,Á,½fhf[]fCf"-¼,Å,í,È,[]A[]ccounting ,È,Ç,lfhf[]fCf"-¼,É,È,è,Û,·[]B

flfbfgf[]fN,Æ,ì[]Ú'±,·,éŠm—š,³,ê,½[]E[]ä,í[]A[]f[]_[]f[]Cf,,f<fAfbfv flfbfgf[]fN,đ[]A[]-[]%[]»,,μ[]A[]Žg—p,μ,Ä,ç ,éfRf"fsf...[]f^,³ LAN ,É'¼[]Ú[]Ú'±,³,ê,Ä,ç,é,Æ,«,Æ,Û,Á,½,"~,[]æ,æ,É'€[],·,é,± ,Æ,³,Ä,«,Û,·[]B,Û,è[]A[]flfbfgf[]fN,³[]Y'u,³,ê,Ä,ç,élf[]t[]f[]B[]f[]X,É,ç,é,Æ,«,Æ,Û,Á,½,"~,[]æ,æ ,É"džqf[]f<,âfGfNfXf[]v[]f[]f[]%[]o,đŽg,æ,±,Æ,³,Ä,«,Û,·[]B

'[] "[]F[]Ø—p,lfA[]f[]f[]E[]f"fg[]î·ñ,í[]A'[]É[]í,lf[]f[]b[]f[]g[]f[]f[]N f[]f[]O[]f[]f",ÉŽg,æfA[]f[]f[]E[]f"fg[]î·ñ,Æ"-~,[]æ,Å,·[]B[]f[]_[]f[]Cf,,f<fAfbfv flfbfgf[]fN,í[]A[]f[]N[]f[]%[]o[]f[]CfA[]f"fg f[]f[]f[]U[][,^'· —[]"l,Éf[]f[]b[]f[]g[]f[]f[]N,ÖfA[]f[]N[]f[]Z[]f[]X,·,é[]E —~,đŽ[],Ä,©,Ç,æ,©,đ[]A,± ,é,ç,lfA[]f[]f[]E[]f"fg[]î·ñ,đŽg,Ä,Ä[]E[]Y[],·,μ,Û,·[]B[]f[]_[]f[]Cf,,f<fAfbfv flfbfgf[]fN,íŽÀ[]Ú,ÉfŠf,[]f[]g f[]f[]f[]U[][,^,đf[]f[]O[]f[]f",³,¹,é,í,·,Ä,í,è,è,Û,¹,ñ[]B,±,ì,½,ß[]A[]f[]Š[]f,[]f[]g f[]f[]f[]U[][,^,í[]A'[]Ú[]E],³,ê,½flfbfgf[]fNŽ'[]E¹,ÉfA[]f[]N[]f[]Z[]f[]X,·,é,É,í[]A'[]½,,ì[]ê[]±[]A[]Ú'±,³Šm— š,³,ê,½[]E[]ä,ÉŽ[]°·Ä,Äf[]f[]O[]f[]f",·,é·K—v,³,è,è,Û,· (Windows NT ,ì[]ê[]±,È,ç[]A[]Ctrl + Alt + Del f[]L[][,^,đŽg,ç,Û,·)[]B,½,¾,μ[]A[]Ž[]°·Ä,đŽg,æ Windows NT f[]x[]f[]X,lfRf"fsf... []f^,đ<N"®,μ,½,Æ,«,ÉŽ[]°·Ä,lfhf[]fCf" fA[]f[]f[]E[]f"fg,Éf[]f[]O[]f[]f",μ,Ä,·,Æ (fŠf,[]f[]g fA[]f[]N[]f[]Z[]f[]X[]Ú'±,đŠm— š,·,é'° ,É[]s,ç,Û,·)[]A,±,ìŽè[]±,đ[]E,,±,Æ,³,Ä,«,Û,·[]B[]f[]f[]b[]f[]g[]f[]f[]N f[]P[]f[]u[]f<,Ä[]Ú'±,³,ê,Ä,ç ,È,ç[]ó'Ö,Äf[]f[]O[]f[]f",μ[]A,» ,ì[]E[]ä[]f[]f[]b[]f[]g[]f[]f[]N,Æ'·—[]"l,É[]Ú'±,μ,½[]ê[]±,È,à[]A,±,é,Æ"-~,[]æ,±,Æ,³— ,Ä,í,Û,è,Û,·[]B

flfbfgf[]fN,đŽg,æ

fŠf,[]f[]g fA[]f[]N[]f[]Z[]f[]X f[]f[]f[]o[][,^,ì[]Ú'±,đŠm—š,·,é,Æ[]A'[]d~b%[]o[]ñ[]ü,đ%[]o[]î,μ,Äf[]f[]f^ f[]f[]@[]f[]Cf<,ÉfA[]f[]N[]f[]Z[]f[]X,Å,«,é,æ,æ,É,È,è,Û,·,³[]A[]f[]Š[]f,[]f[]g,Äf[]v[]f[]O[]f[]%[]o[]f[]€,đŽÀ[]s,·,é,±,Æ,í,Ä,«,Û,¹,ñ[]B"d~b %[]o[]ñ[]ü,đ%[]o[]î,μ,Äf[]v[]f[]O[]f[]%[]o[]f[]€,đŽÀ[]s,·,é,Æ[]A,Û,Æ,ñ,Ç,lfA[]f[]v[]f[]Š[]f[]P[]f[]v[]f[]f",íŽÀ—p,ÉŠ—,ì,È,ç ,@,ç,ç ŽÀ[]s'—"x,³x,,È,è,Û,·[]B[]A"K,Èf[]p[]f[]t[]f[]H[]f[]f[]f[]X,đ"¾,é,½,ß,É[]A'[]K—v,ÉfA[]f[]v[]f[]Š[]f[]P[]f[]v[]f[]f",í[]A[]³Ž®,Éf %[]o[]f[]C[]f[]Z[]f[]X,đŽæ"¾,μ,Ä[]A[]Ž[]°·Ä,lf[]f[]f[]f< fRf"fsf...[]f^,ÉfCf"fxfg[]f<,·,é,æ,æ,É,μ,Ä,,¾,¾,ç[]B

ŠÖ~A[]€-Ü

[]Ú'±,đŠÄŽ<,μ[]A[]ó<μ,đ·ñ[]f<,·,é

"ÄŽè,Éf_fCf,,f< flfv[]v[]f[]f"

Ž © •ª, ðfRf“fsf... [f^, Ö, ðf_cf,, f<fcf“ fAfNfZfX, ð<-‰Á, ., é

, Û, ©, ðft [fU [,ª Ž © •ª, ðfRf“fsf... [f^, ÖfAfNfZfX, Á, «, é, æ, ¢, É, ., é, É, Í

1. fŠf, [fg fAfNfZfXŠÇ—ft [fefBfŠfefB, ðŽg, Á, Ä AŽ © •ª, ðfRf“fsf... [f^, Ö, ðfAfNfZfX, ð<-‰Á, ., éft [fU [, ÉfŠf, [fg fAfNfZfX, ð<-‰Á, ð— ^, ð, Û, ·B Ú×, É, Á, ¢, Ä, Í A ufŠf, [fg fAfNfZfX, ð<-‰Á, ðŸ'è, ., év, ðŽQ AE, µ, Ä, ,¼, ¢B

2. fŠf, [fg fAfNfZfXŠÇ—ft [fefBfŠfefB, ©, ¢ AfŠf, [fg fAfNfZfX ft [frfX, ðŠ)Žn, µ, Û, ·B

fRf“fsf... [f^, ð<N“ ©, µ, ½'¼ CEã, É, ©, ©, Á, Ä, «, ½ CEÄ, Ño, µ, ðŽó, ~“ü, é, é, É, Í

1. Windows NT , ðfRf“fgf [f< fpf]f<, ð [ft [frfX] fAfCfRf“, ðf_fuf<fNfŠfbfN, µ, Û, ·B

2. [Remote Access Server] , ð'ð, µ, Û, ·B

3. [fXf^ [fgfAfbfv] , ðfNfŠfbfN, µ, Û, ·B

4. [fXf^ [fgfAfbfv, ðŽí—p] , Á A [Ž © “ ©] , ð'ð, µ, Û, ·B

5. [OK] , ðfNfŠfbfN, µ, Û, ·B

f_fCf,,f<fAfbfv flfbfgf[]fN,İŞT—v

f_fCf,,f<fAfbfv flfbfgf[]fN,İAWindows NT fŞf,[]fg fAfNfZfX fT[]fxfX (RAS) ,İfNf%ofCfAf“fg fo[]fWf#f“,Ä,·[]B

f_fCf,,f<fAfbfv flfbfgf[]fN,đŽg,æ,Æ[]AWindows NT[]AMS-DOS Version 3.1 ^È[]~ (RAS Version 1.1a)[]A,“,æ,Ñ MS OS/2 Version 3.1 (RAS Version 1.1) ,İfŞf,[]fg ft[]fU[][,İ[]Aflfbfgf[]fN,É‘¼[]Ú[]Ú± ,µ,Ä,ç,é,Æ,«,Æ“~,¶,æ,æ,É[]<Æ,Ä,«,Ü,·[]BMicrosoft ,İf_fCf,,f<fAfbfv flfbfgf[]fN,Ä,İ[]AMacintosh ,İflfbfgf[]fN,“,æ,Ñ AppleTalk fvŞf“f^,Ö,İf_fCf,,f<fCf“%oñ[]ü,ð%oi,µ,½fAfNfZfX,İ[]Aftfj[]fg,³,é,Ä,ç ,Ü,¹,ñ[]B

Windows NT RAS ,É,İ[]AZÿ,İ,æ,æ,È[]\[]—v’f,æŞÜ,Ü,é,Ü,·[]B

f_fCf,,f<fAfbfv flfbfgf[]fN fNf%ofCfAf“fg Windows NT[]AMS-DOS (,½,¾,µ[]AMicrosoft Network Client ,æfCf“fXfg[]f<[]Y,Ä, ,é,±,Æ)[]A,“,æ,Ñ LAN Manager ,İ RAS fNf%ofCfAf“fg,İ[]A,·,x,Ä Windows NT RAS fT[]fo[][,É[]Ú±,Ä,«,Ü,·[]B,Ü,½[]AfNf%ofCfAf“fg,İ[]AMicrosoft[]»·i^ÈŞO,İ“C^Ó,İ PPP fNf %ofCfAf“fg,Ä,à,©,Ü,ç,Ü,¹,ñ[]B

RAS ft[]fo[] Windows NT Server ,İ RAS ,Ä,İ[]A[]Ä’å 256 ,İfŞf,[]fg fNf%ofCfAf“fg,ª RAS ft[]fo[][,Éf_fCf,,f<fCf“ ,Ä,«,Ü,·[]BWindows NT Workstation ,ð RAS ft[]fo[][,Æ,µ,ÄŽg,æ[]è±,İ[]Af_fCf,,f<fCf“ ,Ä,«,é,éNf%ofCfAf“fg,İ 1 ,Ä,Ä,·[]BRAS ft[]fo[][,İ[]AfNf %ofCfAf“fg,æflfbfgf[]fN’S’İ,ÉfAfNfZfX,Ä,«,é,æ,æ,É[]\[]—,·,é,±,Æ,à[]A,» ,İ RAS ft[]fo[][,É,µ,©fAfNfZfX,Ä,«,É,ç,æ,æ,É[]\$CEÄ,·,é,±,Æ,à,Ä,«,Ü,·[]B

LAN fvf[]fgfRf< LAN fvf[]fgfRf<,İ[]ALAN (f[][]fjff< fGŞfA flfbfgf[]fN) ,ð%oi,µ,ÄfpfPfbfg,ð“‘— ,µ,Ü,·[]BWindows NT ,Ä,İ[]ATCP/IP[]AIPX[]ANetBEUI ,È,Ç,İ LAN fvf[]fgfRf<,ðftfj[]fg,µ,Ä,ç ,é,½,ß[]AfCf“f^[]flfbfg[]ANetWare ft[]fo[][]A,“,æ,Ñ UNIX ft[]fo[][,ÉfAfNfZfX,Ä,«,Ü,·[]BTCPIP ,Ü,½,İ IPX ,ðŽg,Ä,½ Windows Sockets fAvfŞfP[]fVf#f“[]A-¼’O•t,«fpfCfv[]AfŞf,[]fg fvf[]fv[]fWff fR[]f< (RPC)[]A,“,æ,Ñ LAN Manager API ,æftfj[]fg,³,é,Ä,ç,Ü,·[]B

fŞf,[]fg fAfNfZfX fvf[]fgfRf< fŞf,[]fg fAfNfZfX fvf[]fgfRf<,İ[]AWAN (f[]fCfh fGŞfA flfbfgf[]fN) ,ð %oi,µ,Äff[]f^,İ“‘—,ð[]\$CEä,µ,Ü,·[]BWindows NT ,Ä,İ[]APPP[]ARAS fNf%ofCfAf“fg[]ä,İ SLIP[]AMicrosoft RAS fvf[]fgfRf<,È,Ç,İfŞf,[]fg fAfNfZfX fvf[]fgfRf<,æftfj[]fg,³,é,Ä,ç,Ü,·[]B

WAN flfv[]fvf#f“ fNf%ofCfAf“fg,İ[]A’É[]í,İ“d~b%oñ[]ü,Æ[]Af,fff€,Ü,½,İf,fff€ fvf[]f<,ðŽg,Ä,Äf_fCf,,f<fCf“ ,Ä,«,Ü,·[]BISDN ,ðŽg,æ ,Æ[]A,æ,è[],‘—,ÈfŞf“fN,ðŽACE»,Ä,«,Ü,·[]B,Ü,½[]AX.25[]ARS-232C Null f,fff€[]A,Ü,½,İ[]Ä[]V,İ PPTP (Point-to-Point Tunneling Protocol[]F flfCf“fg fc[] flfCf“fg fgflfŞf“fO fvf[]fgfRf<) ,ðŽg,Ä,Ä RAS fNf%ofCfAf“fg,ð RAS ft[]fo[][,É[]Ú±,·,é,±,Æ,à,Ä,«,Ü,·[]B

fZLf...fŞfefB<@“ Windows NT ,İ’ñ<ÿ,·,é[]fOfif“,Æfhf[]fCf“,İfZLf...fŞfefB[]AfZfLf...fŞfefB fzfXfg,İftfj[]fg[]Aff[]f^,İ^Ä[]+%o[]A,“,æ,ÑfR[]f<fofbfN<@“\,É,æ,è[]AfŞf,[]fg fNf %ofCfAf“fg,İ^Ä’S,Éflfbfgf[]fN,ÉfAfNfZfX,Ä,«,Ü,·[]B

fCf“f^[]flfbfg ftfj[]fg Windows NT ,Ä,İ[]ARAS ,ðŽg,Ä,ÄfCf“f^[]flfbfg,İ ,ç,ä,éft[]fxfX,ð—~— p,Ä,«,Ü,·[]B,½,Æ,İ,İ[]AWindows NT Server fRf“fsf...[]f^,ðfCf“f^[]flfbfg ft[]fxfX fvf[]fofCf_,Æ,µ,Ä[] \[]—,·,é,Æ[]APPP fNf%ofCfAf“fg,©,çf_fCf,,f<fAfbfv,µ,Ä[]A,»,İfCf“f^[]flfbfg ft[]fo[][,É[]Ú±,Ä,«,é,æ,æ ,É,È,è,Ü,·[]B,Ü,½[]AWindows NT Workstation fRf“fsf...[]f^,©,ç[]AfCf“f^[]flfbfg,É[]Ú±,µ,Ä,ç,é Windows NT Server (Version 3.5 ^È[]~) fRf“fsf...[]f^,â[]A<ÆŞE•W[]€,İ PPP ,Ü,½,İ SLIP fx[]fX,İ“C^Ó,İfCf“f^[]flfbfg ft[]fo[][,Éf_fCf,,f<fCf“,·,é,±,Æ,à,Ä,«,Ü,·[]B[]Ú×,É,Ä,ç,Ä,İ[]A[]wWindows NT fŞf[]fX flfbfg[]x,İ[]wfCf“f^[]flfbfg fKfCfh[]x,ðŽQ[]Æ,µ,Ä,,¾,¾,ç[]B

f_fCf,,f<fAfbfv flfbfgf[]fN fNf%oCfAf“fg

Windows NT RAS fT[]fo[]ÉÚ'±,·,éfNf%oCfAf“fg,íAWindows NTAWindows 95AMS-DOS
(,½,¾,μAMicrosoft flfbfgf[]fN,lfNf%oCfAf“fg fftfgfEfffA,²fCf“fXfg[]f<[]í,Ý,Á, ,é,±,Æ)ALAN
Manager[]A,Ü,½,Í“C^Ó,ì PPP fNf%oCfAf“fg,ì,ç,·,é,Á,à,©,Ü,ç,Ü,¹,ñBfNf%oCfAf“fg,É,íAf,fff€ ([]
•²,ÈpftfH[]f}f“fX,ð“¾,é,É,íA9600bps ^Èã,lf,fff€,ð,“Š©,β,μ,Ü,·) ,ÆfAfif[]fOŽ@“d“b
%ñü[]A,Ü,½,í,Ü,©,ìCE`Ó,ì WAN []Ú'±,²•K—v,Á,·[]B,Ü,½[]AfŠf,[]fg fAfNfZfX f
ftfgfEfffA,²fCf“fXfg[]f<,³,é,Á,ç,È,“ ,é,í,È,è,Ü,¹,ñ[]B

RAS ,ì f[]fgf_fCf,,f<<@“\,ðŽg,²,Æ[]AÚ'±,²Ž@“@%»»,³,é,Ü,·[]B,±,ì<@“\,É,æ,è[]ARAS fŠf“fN,ð
%òì,μ,½,·,·,×,Á,ìÚ'±,²<L%»“ ,³,é,é,ì,ÁA2 %ñ-Ú^È~ ,ÉŽ^CE¹,ÉfAfNfZfX,·,é,Æ,«,íAZ@“@“ì,É[]Ä[]Ú'±
,³,é,Ü,·[]B

,Ü,½[]AMicrosoft fNf%oCfAf“fg,©,çŠÈ'P,Èfofbf` ftf@fCf<,Æ **rasdial** frf}f“fh[]A,Ü,½,í RAS
,lfAfvfŠfP[]fVf}f“ fvf[]Of%oof~f“fO fCf“f^[]ftfFfCfX (API) ,ðŽg,Á,½[]è—p,ì RAS —
pfAfvfŠfP[]fVf}f“ ,ðŽA[]s,μ,Á[]AÚ'±,ðŽ@“@%»»,Á,«,·[]B,³,ç,É[]ARAS ,Æ **at** frf}f“fh,ðŽg,Á,Á[]AfŠf,[]fg
frf“fšf...[]f^ ,Æ RAS fT[]fo[]l,ìŠÖ,ÁŽ@“@fofbfNfAfbfv,ðfXfPfwf...[]f<,·,é,±,Æ,à,Á,«,Ü,·[]B

Windows NT 3.5[]A3.51 , ,æ,Ñ Windows 95 fNf%oCfAf“fg

Windows NT Version 3.5x , ,æ,Ñ Windows 95 ,lfNf%oCfAf“fg,íAf}f<f Šf“fN<@“\,ðœ,ç,Ä[]AWindows
NT Version 4.0 ,ì RAS ,ì<@“\,ð[]Á^âCEÀ,É—~—p,Á,«,Ü,·[]BWindows NT Version 3.5x , ,æ,Ñ Windows 95
,lfNf%oCfAf“fg,íAMicrosoft []•i^ÈŠÖ,ì“C^Ó,lfŠf,[]fg fAfNfZfX PPP fT[]fo[]l,Ü,½,í SLIP
fT[]fo[]l,É,à[]Ú'±,Á,«,Ü,·[]B

Windows NT Version 3.5x , ,æ,Ñ Windows 95 ,lfNf%oCfAf“fg,íAMicrosoft RAS fT[]fo[]l[]APPP
fT[]fo[]l[]A,Ü,½,íSLIP fT[]fo[]l,ì,ç,·,é,ìfT[]fo[]l,É'í,μ,Á,à[]Af[]Ofif“ ,Æ“F[]Ø,lfjfSfvfg[]fVf}f“ ,ð[]s,ç
,Ü,·[]B,Ü,½[]ARAS ,ì“d~b' fGf“fgfŠ,ð[]\—,μ[]AfXfNfŠfvfg,ðŽg,Á,Á[]f[]Ofif“ ,ðŠ@'S,ÉŽ@“@%»»,·,é,±
,Æ,à,Á,«,Ü,·[]B

Windows NT 3.1 fNf%oCfAf“fg

Windows NT Version 3.1 fNf%oCfAf“fg,íAMicrosoft RAS fvf[]fgfRf<,ðŽg,Á,Á,ç
,Ü,·[]B,Ü,½[]A,·,×,Á,lf[]o[]fWf}f“ ,ì Microsoft RAS ,ÆŠ@'S,ÈCEÝŠ·[]«², ,è,Ü,·[]B

Windows NT Version 3.1 fNf%oCfAf“fg,íAWindows NT Version 3.5 ,Á“±“ü,³,é,½ PPP fvf[]fgfRf<,ðfTf[]
[]fg,μ,Á,ç,Ü,¹,ñ[]BTCP/IP ,Ü,½,í IPX ,ðŽg,Á,Á LAN []ã,lfT[]fo[]l,Æ'¼[]Ú'É[]M,·,éfNf%oCfAf“fg
fAfvfŠfP[]fVf}f“ ,ðŽA[]s,Á,«,é,ì,íAWindows NT Verson 3.5x ,Ü,½,í,Ü,©,ì PPP fNf%oCfAf“fg,¾,·,Á,·[]B

MS-DOS , ,æ,Ñ LAN Manager fNf%oCfAf“fg

Windows NT Server ,ìñ<ÿ,·,é Microsoft Network Client Version 3.0 for MS-DOS ,Á,à[]AfŠf,[]fg
fAfNfZfX<@“\,ðŽg—p,Á,«,Ü,·[]B,Ü,½[]A•É” , ,ì LAN Manager RAS fNf%oCfAf“fg,Á,à[]AWindows NT
Version 3.5x ,ì RAS fT[]fo[]l,ÉÚ'±,Á,«,Ü,·[]B,±,é,ç,lfNf%oCfAf“fg,íA,·,×,Á,lf[]o[]fWf}f“ ,ì Microsoft RAS
fvf[]fgfRf<,ÆŠ@'S,È (3.5x) CEÝŠ·[]«², ,è,Ü,·[]B

Microsoft Network Client Version 3.0 for MS-DOS ,íAftf< fŠf_fCfÆfNf^ ,ðŽg,²,æ,²
,É[]Ý'è,μ,È,“ ,é,í,È,è,Ü,¹,ñ (,±,é,í[]AŠù'è,ì[]Ý'è,Á,·)[]BŠì-{}fŠf_fCfÆfNf^ ,ðŽg,²,æ,²,É[]Ý'è,·,é,Æ[]AfŠf,[]fg
fAfNfZfX fvf[]Of%oof€,ì **rasphone** ,²<N“@ ,μ,Ü,¹,ñ[]B

MS-DOS[]A, ,æ,Ñ LAN Manager fNf%oCfAf“fg,í[]ARAS ,ì NetBIOS
fQ[]fgfEfffC,ðŽg,Á,Á[]ATCP/IP[]AIPX[]A,Ü,½,í NetBEUI ,ðŽA[]s,·,é NetBIOS
fT[]fo[]l,ÉfAfNfZfX,Á,«,Ü,·[]B,½,¾,μ[]A,±,é,ç,lfNf%oCfAf“fg,Á,í[]AfNf%oCfAf“fg[]ã,Á TCP/IP ,Ü,½,í IPX
,ðŽg,í,É,“ ,é,í,È,ç,È,çfAfvfŠfP[]fVf}f“ ,ðŽA[]s,Á,«,Ü,¹,ñ[]B

,Ü,½[]A,±,é,ç,lfNf%oCfAf“fg,íAWindows NT Version 3.5 ,Á“±“ü,³,é,½ PPP fvf[]fgfRf<,ðfTf[][]fg,μ,Á,ç
,Ü,¹,ñ[]B

PPP fNf%oCfAf“fg

Microsoft »•i^ÈŠO,Å,àATCP/IPAIPXA,Ü,½,Í NetBEUI ,ðŽg,» PPP fNf%ofCfAf“fg,Å, ,ê,îAWindows NT
Version 3.5 ^È~ ,ì RAS fT[fo[,ÉfAfNfZfX,Å,«,Ü,·BRAS fT[fo[,íAŽ©“®“l,É PPP fNf
%ofCfAf“fg,Æ”FØ,ìfSfVfG[fVf#f” ,ðs,ç,Ü,·BWindows NT ,ì RAS f\ftfgfEfffA,Å,íAMicrosoft
»•i^ÈŠO,ì PPP fNf%ofCfAf“fg,É’í,µ,Ä,àA“Á•Ê,È\—,í•K—v, ,è,Ü,¹,ñB
PPP fNf%ofCfAf“fg,ìÚ×,É,Â,ç,Ä,íAPPP fNf%ofCfAf“fg,ì\ftfgfEfffA,ì}fjf...fAf<,ðŽQÆ,µ,Ä,,³/₄,³,çB

fšf, [f]g fAfNfZfX fvf [f]gRf<

fšf, [f]g fAfNfZfX fvf [f]gRf<, í AWAN (f [f]Cfh fGfšfA flfbfgf [f]N), δ%î, μ, ½ff [f]f^, ì"´—, δ%šCEä, μ, Ü, ·Bfšf, [f]g fAfNfZfX fNf%ofCfAf"fg, Afšf, [f]g fAfNfZfX fT [f]fo [f]L, Åžg, xflfyfCE [f]efBf"fo fVxfef€, AE LAN fvf [f]gRf<, É, æ, Á, ÄAfNf%ofCfAf"fg, Åžg, xšf, [f]g fAfNfZfX fvf [f]gRf<, æCE^, Ü, è, Û, ·Bfšf, [f]g fAfNfZfX fvf [f]gRf<, É, í APPP (Point-to-Point Protocol [f] f [f]Cf"fg fC [f] f [f]Cf"fg fvf [f]gRf<) [f] ASLIP (Serial Line Internet Protocol [f] fVfšfAf<%ñüfCf"fg [f] flfbfg fvf [f]gRf<) [f] Microsoft RAS fvf [f]gRf< [f] A, ", æ, Ñ NetBIOS fQ [f]gfEjFfC, ì 4 Ží—p, a, , è, Û, ·B

PPP (Point-to-Point Protocol [f] f [f]Cf"fg fC [f] f [f]Cf"fg fvf [f]gRf<)

Windows NT RAS, Á, í APPP, šTf [f] [f]g, μ, Ä, ç, Ü, ·B PPP, í A<ÆŠE·W [f] € , ìftfCE [f]f~f"fo, AE" F [f]Ø fvf [f]gRf<, ìfZfbfg, ÅA^ÚŽí, ìflfbfgf [f]N, š'ŠCEÝ, É% ^—p, μ, Ä, ç , èŠ, «, Á, à Afšf, [f]g fAfNfZfX, δ%Å" \, É, μ, Ü, ·B Microsoft, Á, í APPP, í _ "î [f] « [f] A<ÆŠE·W [f] € , AE, μ, Ä, ì-δŠ, [f] A, ", æ, ÑfNf%ofCfAf"fg—p, AfT [f]fo [f]—p, ìfn [f]fhfEjFfA, Afšf, fEjFfA, ÉŠÖ, ·, é [f] «—^"í, È [f] _ "î [f] «, δ [f] —¶, μ [f] APPP, δžg, x, ±, AE, δ, "Š [f] ©, β, μ, Ü, ·B

PPP, ìftf [f] [f]g, É, æ, è AWindows NT, δžÅ [f] s, ·, éRf"fsf... [f] f^, í APPP <KŠi, É [f] € <', μ, Ä, ç, é" C^Ó, ìft [f] [f]fo [f] [f] , δ %î, μ, Äšf, [f]g flfbfgf [f]N, Éf_fCf,, f<fCf", Á, «, Ü, ·B, Ü, ½ [f] AWindows NT Server fRf"fsf... [f] f^, í A, Ü, ©, ì [f] [f] [f] [f] [f]šf, [f]g fAfNfZfX fšf, fEjFfA, ©, çCEÄ, Ñ [f] o, μ, δžó, "žæ, è [f] A, » ìfš fEjFfA, Éflfbfgf [f]N fAfNfZfX, δ<-%Å, ·, é, ±, AE, à, Á, «, Ü, ·B

PPP fA [f] flfEfNf" ff, Á, í AfNf%ofCfAf"fg, í AIPX [f] ATCP/IP [f] A, ", æ, Ñ NetBEUI, δ" C^Ó, É'g, Ý [f] †, í, 1, Åžg, x, ± , AE, a, Á, «, Ü, ·B, ±, ì, ½, β [f] AWindows Sockets [f] ANetBIOS [f] A, Ü, ½, í IPX fCf"fg [f] ftfFfCfX—p, É [f] [f] —, 3, è, ½ AfvšfP [f] V [f] †", ššf, [f]g, ì Windows NT Workstation fRf"fsf... [f] f^, ÅžÅ [f] s, Á, «, Ü, ·B

PPP, í Afšf, [f] [f]g fAfNfZfX, ì •W [f] € <KŠi, É, È, Á, Ä, ç, Ü, ·B

fšf, [f]g fAfNfZfX fvf [f]gRf<, ì KŠi, í AIETF (Internet Engineering Task Force), È, Ç, æÖ•z, ·, é "RFC" (Request for Comments), È'è<` , 3, è, Ä, ç, Ü, ·B CE» [f] Ý, ìfo [f] [f]W [f] †", ì Windows NT RAS, šTf [f] [f]g, μ, Ä, ç, é RFC, í AZÝ, ì, AE, ", è, Á, ·B

- RFC 1549 HDLC ftfCE [f] f€ "à, ì PPP
- RFC 1552 PPP IPXCP (Internetwork Packet Exchange Control Protocol [f] fCf"fg [f] flfbfgf [f]N f [f] PfbfgCE δš' [f] ŠCEä fvf [f]gRf<)
- RFC 1334 PPP "F [f]Ø fvf [f]gRf<
- RFC 1332 PPP IPCP (Internet Protocol Control Protocol [f] fCf"fg [f] flfbfg fvf [f]gRf< [f] ŠCEä fvf [f]gRf<)
- RFC 1661 LCP (Link Control Protocol [f] fšf"fn [f] ŠCEä fvf [f]gRf<)
- RFC 1717 PPP f}f'f' fšf"fn fvf [f]gRf<

fšf, [f]g fNf%ofCfAf"fg, šT [f] fh fp [f] fefB, ì PPP fT [f]fo [f] [f] , É [f] Ú' ± , ·, é [f] è [f] [f] Af [f] Of [f] †", ·, é, É, í Af_fCf,, f<CEä, Éf^ [f] f~fif< fXfNfšf, vfg, δ<N" @, μ, È, ", è, Ì, È, ç, È, ç, ± , AE, a, , è, Û, ·B fT [f]fo [f] [f] , ššf, [f]g fNf%ofCfAf"fg, É [f] APPP ftfCE [f] f€ f, [f] fh, É [f] Ø, è'Ö, ì, é, ± , AE, δ'É'm, μ, Ä, «, ½, ç [f] Af [f] [f] U [f] [f] f^ [f] f~fif<, δ<N" @, μ [f] Af [f] Of [f] †", δš [f] —, 1, μ, È, ", è, Ì, È, è, Û, 1, ñ [f] B

SLIP (Serial Line Internet Protocol [f] fVfšfAf<%ñüfCf"fg [f] flfbfg fvf [f]gRf<)

SLIP (Serial Line Internet Protocol [f] fVfšfAf<%ñüfCf"fg [f] flfbfg fvf [f]gRf<), í A'É [f] í, í UNIX fšf, [f]g fAfNfZfX fT [f]fo [f] [f] , Åžg, í, è, Á, ç, é<CEŽ @, ìšf, [f]g fAfNfZfX <KŠi, Á, ·B Windows NT f_fCf,, f<fAfbf v flfbfgf [f]N fNf%ofCfAf"fg, í ASLIP, šTf [f] [f]g, μ, Ä, ç, é, ½, β [f] ASLIP <KŠi, δžg, Á, Ä, ç, éšf, [f]g fAfNfZfX fT [f]fo [f] [f] , É, à [f] Ú' ±, Á, «, Ü, ·B, ±, è, É, æ, è AWindows NT Version 3.5 fNf%ofCfAf"fg, í A'á <K—í, ÉfCf"fxfg [f] [f] fX [f] X, ì UNIX fT [f]fo [f] [f] , É [f] Ú' ±, Á, «, Ü, ·B, ½, ¾, μ [f] AWindows NT fšf, [f]g fAfNfZfX fT [f]fo [f] [f] , í ASLIP fNf %ofCfAf"fg, šTf [f] [f]g, μ, Ä, ç, Ü, 1, ñ [f] B

, ±, ìfo [f] [f]W [f] †", ì Windows NT RAS, šTf [f] [f]g, μ, Ä, ç, é RFC, í AZÝ, ì, AE, ", è, Á, ·B

- RFC 1144 'á'—fVfšfAf< fšf"fn—p, ì TCP/IP fwfbf_ [f] [f] ^ 3 [f] k
- RFC 1055 fVfšfAf<%ñüfCf"fg [f] flfbfg, ì IP ff [f] f^ fOf%of€, ì"´— [f] SLIP

Microsoft RAS fvf [f]gRf<

Microsoft RAS fvf[]fgfRf<, í[]AMicrosoft "ÆŽ©, ðfŠf, []fg fAfNfZfX fvf[]fgfRf<, Å[]ANetBIOS <KŠi, ðfTf| []fg, µ, Ä, ç, Ü, ·[]BMicrosoft RAS fvf[]fgfRf<, í[]A^È'O, ð, ·, x, Ä, ðfo[]fWf#f", ð Microsoft RAS , ÉŽg, í, è, Ä, ç , Ü, ·[]B, Ü, ½[]AWindows NT Version 3.1[]AMS-DOS[]A, ", æ, Ñ LAN Manager fNf%ofCfAf"fg, Å, àŽg, í, è, Ä, ç , Ü, ·[]B

Windows NT Version 3.1 , ðfT[]fo[][, Éf_fCf, f<fCf" , ·, éê[]#[]ARAS fNf%ofCfAf"fg, í[]ANetBEUI fvf[]fgfRf<, ðŽg, í, È, ·, è, Í, È, è, Ü, ·, ñ[]B, ±, ð[]ê[]#[]ARAS fT[]fo[][, í[]AfŠf, []fg fNf%ofCfAf"fg, É'í, µ, Ä "fQ[]fgfEfffC" , Æ, µ, Ä<@"\, µ[]ANetBEUI[]ATCP/IP[]A, Ü, ½, í IPX fvf[]fgfRf<, ðŽg, ðfT[]fo[][, ÉfŠf, []fg fNf %ofCfAf"fg, ðfAfNfZfX, Ä, «, é, æ, ð, É, µ, Ü, ·[]B

NetBIOS fQ[]fgfEfffC

NetBIOS fQ[]fgfEfffC, í[]A^È'O, ðfo[]fWf#f", ð Windows NT , Æ LAN Manager , ÅŽg, í, è, Ä, ç , ½fA[]flfefNf`ff, Ä, ·[]BWindows NT , í[]ANetBIOS fQ[]fgfEfffC, ð`ø, «'±, «fTf|[]fg, µ, Ä, ç, Ü, ·[]BfŠf, []fg fT[]fU[][, í NetBEUI , ðŽg, Ä, Ä[]Ú'±, µ, Ü, ·, ð[]ARAS fT[]fo[][, í•K—v, É%ž, ¶, Ä[]AfpfPfbfg, ð IPX , Ü, ½, í TCP/IP , É•İŠ·, µ, Ü, ·[]B, ±, ð<@"\, É, æ, è[]Aft[]fU[][, í[]A•i[]", ðfvf[]fgfRf<, ð[]—[]Ý, ·, é LAN , Åfifbfgf[]fNŽ'CE¹, ð<ð— L, Ä, «, Ü, ·[]B, ½, ¾, µ[]AIPX , Ü, ½, í TCP/IP , ðŽg, ðfAfvfŠfP[]fVf#f", ðfNf%ofCfAf"fg'ð, ÅŽÀ[]s, ·, é, ± , Æ, í, Ä, «, Ü, ·, ñ[]BfŠf, []fg fNf%ofCfAf"fg, ð NetBEUI , ðŽg, ð[]ê[]#[], í[]A'Á, ÉŽw'è, µ, È, ç, ©, —, è NetBIOS fQ[]fgfEfffC, ðŽg, í, è, Ü, ·[]B

NetBIOS fQ[]fgfEfffC, ð<@"\, ð^è—á, Æ, µ, Ä[]ALotus Notes fT[]fU[][, ðfŠf, []fg flfbfgf[]fN fAfNfZfX, ð<" , °, ç, è, Ü, ·[]BLotus Notes , í[]Af_fCf, f<fAfbfv[]Ú'±, ð<@"\, ð'ñ<Ý, µ, Ä, ç , Ü, ·, ð[]Af_fCf, f<fAfbfv, ð[]Ú'±æ, í[]ANotes fAfvfŠfP[]fVf#f", ÉCEÀ'è, ð, è, Ä, ç, Ü, ·[]BRAS , í[]A, ±, ð, æ, ð , È[]Ú'±<@"\, ð•à'« , µ[]A'á, çfRfXfg, Å, ·, çfjftfH[]f]f"fx, ðŽÀCE», Ä, «, éfŠf, []fg flfbfgf[]fN<@"\, ð Notes fT[]fU[][, É'ñ<Ý, µ, Ü, ·[]BRAS , Ä, í[]ANotes , É[]Ú'±, Ä, «, é, ¾, —, Ä, È, []Aftf@fCf< fT[]fRfX, Æ^ò[]üfT[]fRfX, à[]A, Ü, ©, ðfifbfgf[]fNŽ'CE¹, Ö, ðfAfNfZfX, à'ñ<Ý, ð, è, Ü, ·[]B

WAN f1fvfvfj“

fNf%ofCfAf“fg,đfT□f□f□,É□Ú'±,·,é,É,Í□A“d~b%ñ□ü,Æf,fff€□AISDN□AX.25□ARS-232C Null f,fff€□A,·,æ,Ñ PPTP (Point-to-Point Tunneling Protocol) ,đ~—p,Á,«,Ü,·□B,±,±,Á,Í□A,±,é,ç,lf1fvfvfj“·,É,Á,ç,Ä□à- ¾,μ,Ü,·□B

“d~b%ñ□ü,Æf,fff€

□Á,à^è“É“l,ÉŽg,í,é,Ä,ç,é WAN □Ú'±,Í□A'É□í,lfAfif□fOŽ®“d~b%ñ□ü,Æf,fff€,đŽg,Á,½□Ú'± ,Á,·□B'É□í,lfAfif□fOŽ®“d~b%ñ□ü,Í□A□çŠE't,Á—~—p,Á,«,é,í,Á□A□íŽž^ú“® ,μ,Ä,ç,éft□[fU□],l RAS ,É'í,·,éj□[fY,É,à%ž,í,é,±,Æ,ª,Á,«,Ü,·□B'É□í,lfAfif□fOŽ®“d~b%ñ□ü,Í□APSTN (Public Switched Telephone Network□F CEö□OCEđŠ·“d~b-Ô) ,Ü,½,Í POTS (Plain-old Telephone Service□F 'É□í“d~bfT□[fxfX) ,ÆCEÁ,í,é,±,Æ,à, ,è,Ü,·□B

Windows NT ,ÆCEÝŠ·□«,ì, ,é,fff€,Í□A,·,æ,» 200 Ží—p, ,è,Ü,·□B,Ü,½□A□H<Æ<KŠi,É□€<' ,μ,Ä,ç ,é,Ü,Æ,ñ,ç,lf,fff€,Í□A'ŠCEÝ,É%o^—p,Á,«,Ü,·□B,½,¾,μ□ACEÝŠ·□«,ì,È,ç,fff€,đŽg,±,Æ□A—Šú,μ,È,ç- à'è,ª'½“ ,·,é,±,Æ,ª ,è,Ü,·□B,±,ì,æ,±,É-à'è,đ-h,® ,É,Í□AfNf%ofCfAf“fg,ÆfT□f□f□,Á“·,¶Ží—p,lf,fff€ ,đŽg,Á,Ä,¾,¾,¾,ç□B

f,fff€,lCEÝ□o,Í□AZ©“®“l,É□s,í,é,Ü,·□Bf,fff€,lŽ©“®CEÝ□o<@“\,Í□AfCf“fXfg□[f<,³,é,Ä,ç,é,fff€,ª·s- ¾,É□è□±,É (,½,Æ,í,Í□A“à' f,fff€,ì□è□±,É,ç)□A“Á,É·Ö—~ ,Á,·□B

fT□[fh fp□[fefB,lf,fff€ fv□[f<,à□AfNf%ofCfAf“fg'±,Ü,½,lfT□[fo□[‘±,ÁŽg—p,Á,«,Ü,·□Bf,fff€ fv□[f<,đ RAS ,ÁŽg—p,Á,«,é,æ,±,É,·,é,É,Í□AfRf“fgf□□[f< fpf|f<,ì [f|fbfgf□□[fN] ,đŽg,Á,Ä□Y'è,μ,Ü,·□Bf,fff€ fv□[f<,ì□Ú□x,É,Á,ç,Ä,Í□Af,fff€ fv□[f<,lf}jff...fAf<,đŽQ□Æ,μ,Ä,¾,¾,¾,ç□B

Windows NT ,Á,Í□Af,fff€,lf□[f^ ^³□k<@“\,ÆfGf%o□[□SCEä<@“\,đ~—p,Á,«,Ü,·□B,½,¾,μ□ARAS ,lf ftfgfEJfA^³□k<@“\,đŽg,±,Æ□Af,fff€,É,æ,éft□[f^ ^³□k,æ,è□,·,çpftfH□[f}f“fX,đ“¾,é,±,Æ,ª,Á,«,Ü,·□B

ISDN

RAS ,đŽg,±□í□Y,lfŠf,□[fg ftfCfg,Á WAN □Ú'±,đ□,‘~%o»,·,é,É,Í□AISDN (Integrated Service Digital Network□F ‘□□±fffWf^f< fT□[fxfX-Ô) %oñ□ü,đŽg,ç,Ü,·□B'É□í,Í“d~b%ñ□ü,Á,Í□A^è“É“l,É'É□M'—“x,í-^·b 9600 frfbfg (bps) ,Á,·ª□AISDN %oñ□ü,í'É□M'—“x,Í□A64kbps ,Ü,½,í 128kbps ,Á,·□B

ISDN %oñ□ü,Í□A“d~b%ñ□ü,É^È—Š,μ,ÁfT□[fo□[‘±,ÆfŠf,□[fg'±,ì— ¾·ú,lfTfCfg,É·~□Y,μ,È,·,é,í,È,è,Ü,¹,ñ□B,Ü,½□AISDN ,đ~—p,·,é,É,Í□AfT□[fo□[,ÆfŠf,□[fg fNf %ofCfAf“fg,ì—¾·ú,É□Af,fff€,ì'ä,í,è,É ISDN f□[fh,²fCf“fXfg□[f<,³,é,Ä,ç,é·K—v,ª ,è,Ü,·□BISDN ,ì<@Ší,Æ %oñ□ü,É—v,·,é“í—p,Í□Af,fff€,Æ“d~b%ñ□ü,đŽg,±□è□±,æ,è□,·,É,è,Ü,·ª□A□Ú'±ŽžŠÖ,ªŽžŠÖ,Á□í,p,ì,Á□A —~—p—ž<à,đ□B-ñ,Á,«,é,±,Æ,à, ,è,Ü,·□B

1 -{,ì ISDN %oñ□ü,É,Í□A64Kbps ,Áff□[f^ ,đ“‘—,·,é B f`fff|f<,ª 2 ,Á,Æ□A16Kbps ,Áff□[f^ ,đ“‘— ,·,é□M□t'—Žó□M—p,ì D f`fff|f<,ª 1 ,Á·t,ç,Ä,ç,Ü,·□BŠe B f`fff|f<,Í□A'P“Æ,lf□[fg,Æ,μ,Ä<@“\,·,é,æ,±,É□\ □- ,Á,«,Ü,·□B,Ü,½□AISDN fhf%ofCfo,ìŽí—p,É,æ,Á,Ä,Í□A·i□“ ,lf`fff|f<,đ“□□±,μ,ÁŽg— p,Á,«,é□è□±,à, ,è,Ü,·□B,Á,Ü,è□A2 ,Á,ì B f`fff|f<,Á'P^è,lf□[fg,Æ,μ,Ä<@“\,·,é,æ,±,É□\ □- ,μ,Ä□A,æ,è□L,ç'Ñ^æ·□,đCEÁ'è“l,ÉŠ,,è—,·,Á,é,±,Æ,ª,Á,«,Ü,·□B,±,ì,æ,±,É□\□- ,·,é,Æ□A%oñ□ü—“x,í 128 KBps ,Ü,ÁCEü□ä,μ,Ü,·□Bf`fff|f<,ì“□□±,É,lfhf%ofCfo,²,Æ,ÉCEÁ—L,ì·úŽ® ,ª□,ç,é,Ä,ç,é,½,ls□AfNf %ofCfAf“fg,ÆfT□[fo□[,ì—¾·ú,Á“·,¶fhf%ofCfo,Æ“·,¶<@Ší,đŽg,í,È,·,é,í,È,è,Ü,¹,ñ□B

X.25

X.25 ,Í□AWAN □Ú'±—p,É□YCEv,³,é,½·W□€ ,lfp□PfbfgCEđŠ·É□Mfvf□fgfRf< (,Ü,½,lfgf%of“fXf□[fg) ,Á,·□B Windows NT RAS ,Í□APAD (Packet Assemblers/Disassemblers) ,Æ X.25 fXf}□[fg f□[fh,đŽg,Á,Ä□AX.25 <KŠi,ÉŠí,Á,□Ú'±,đfTf□[fg,μ,Ü,·□B,Ü,½□APAD ,áfXf}□[fg f□[fh,ì'ä,í,è,É□Af_fCf,,f<Afbfv□Ú'±,đ'ñ<Y,·,é X.25 'É□MŽ- <ÆŽÖ (Sprintnet ,à Infonet ,É,ç) ,Æf,fff€,đ~—p,·,é,±,Æ,à,Á,«,Ü,·□B

RS-232C Null f,fff€

“·,¶è□Š,É·i□“ ,lf|fbfgf□□[fN,ª ,è□A,» ,é,ç,ª“—□“l,É□Ú'±,³,é,Ä,ç,È,ç,Æ,μ,Ü,·□B,±,ì,æ,±,É□è□±,É□A1

'ä,lfRf"fsf...□[f^,©,ç,»ê,ç,lfifbfgf□□[fN□ã,ÌŽ'CE¹,ÉfAfNfZfX,·,é,É,í□ARS-232C Null f,fff€,ðŽg,ç,Ü,·□BfNf %oofCfAf"fg,í□ARS-232C fP□[fuf<,ðŽg,Á,ÄfNf%oofCfAf"fg,ì COM f□[fg,Æ RAS fT□[fo□[.ì COM f□[fg,ð□Ú'± ,μ□ARAS ,ðŽg,Á,Äfifbfgf□□[fN,ÉfAfNfZfX,μ,Ü,·□B

,Ü,½□ARAS fT□[fo□[,©,ç,ç" —□"l,É<ß,,ÉfRf"fsf...□[f^,^É'u,μ,Ä,ç,é□è□± (fP□[fuf<,ì'·,³,^a 50 ftfB□[fg (-ñ 15 m) -ç-ž,ì□è□±)□ARS-232C Null f,fff€,í□Afifbfgf□□[fN f□[fh,ì'ä,í,è,Æ,μ,Ä,àŽg—p,Á,«,Ü,·□B

PPTP (Point-to-Point Tunneling Protocol □ F fJfCf"fg fc□[fJfCf"fg fgJfŠf"fo fvJfJfgRf<)

'É□í□ARAS fT□[fo□[,í□AfAfif□foŽ@ "d"b%oñ□ü□AISDN□A,Ü,½,í X.25 fJfBfgf□□[fN,É□Ú'± ,³,è,Ä," ,è□AfŠf,□[fg fT□[fU□[,í□A,±,è,ç,lfifbfgf□□[fN,ð%oì,μ,ÄfT□[fo□[,ÉfAfNfZfX,μ,Ü,·□BWindows NT Version 4.0 ,ì RAS ,Á,í□A□Á□V,ì PPTP (Point-to-Point Tunneling Protocol □ F fJfCf"fg fc□[fJfCf"fg fgJfŠf"fo fvJfJfgRf<),ðŽg,κ,±,Æ,É,æ,è□AfCf"f^□[fifbfg,ð%oì,μ,½fŠf,□[fg fAfNfZfX,^a%oÁ" ,É,È,è,Ü,μ,½□B

PPTP ,í□Af}f<f' fvJfJfgRf<,ì VPN (Virtual Private Network □ F %o¼'zfVf%oofCfx□[fg fJfBfgf□□[fN),ðfTf] □[fg,·,é□Á□V,lfifbfgf□□[fN fefNfmf□fW,Á,·□BfŠf,□[fg fT□[fU□[,í□APPTP ,ðŽg,κ,±,Æ,É,æ,è□AISP (Internet Service Provider □ F fCf"f^□[fifbfg fT□[frfX fvJfJfofCf_)

,Éf_fCf,,f<fCf" ,·,é,©□A,Ü,½,lfCf"f^□[fifbfg,É'¼□Ú□Ú'±,μ□AfCf"f^□[fifbfg,ð %oì,μ,ÄŠé<Æfifbfgf□□[fN,É^À'S,ÉfAfNfZfX,Á,«,Ü,·□BPPTP ,É,í□AZÿ,ì,æ,κ,É~" _ ,^a ,è,Ü,·□B

- " " —,É—v,·,é"i—p,ì□íCE ,
- fn□[fhfEjfA,É—v,·,é"i—p,ì□íCE ,
- ŠÇ—□□ã,ì•%o'S,ìCEyCE ,
- fzJLf...fŠfefB,ìCEü□ã

fZfLf...fŠfefB<@”

Windows NT ,íA^À'S,È“®ìSĀ<«„đ'ñ<Ÿ,·,é,½,β,É□AC-2 fĈfxf< (•Ă□'□'-h'□□È) ,lfZfLf...fŠfefB,ÉŠÖ,·,é—
vĈ□,đ-ž,½,·,æ,α,É□YĈEv,³,é,Ā,č,Ü,·□BWindows NT ,lfZfLf...fŠfefB<@”\,É,íAZŸ,ì,æ,α,È“Á'¥,ª, ,è,Ü,·□B
▪ fVfXfef€ fŠf□[fX,Ö,lfAfNfZfX,đĈĀ•Ē,É□SĈĀ,Ā,«„Ü,·□B
▪ ,·,×,Ā,lfVfXfef€ fAfNfZfX,đ<L~^,μ□AŠĀ□,·Ā,«„Ü,·□B
▪ fVfXfef€,ÉfAfNfZfX,·,é,É,í□AfpfXf□□[fh,ª•K—v,Ā,·□B,Ü,½□AŠĀ□, <L~^,ªŽc,è,Ü,·□B

Windows NT Server ,Ā,í□Afhf□fCf“,ìM—ŠŠÖĈEW,Æ□A'P^êfIfbfgf□□[fN f□fOfIf“ f,fff<,đ□ì—p,μ,Ā,č
,Ü,·□B,±,lf,fff<,Ā,í□A, ,éfhf□fCf“,lf□□[fU□[,ÆfOf<□[fv,É□A,»„lfhf□fCf“,đ□M—Š,μ,Ā,č
,é•Ē,lfhf□fCf“,ìŽ'Ĉ¹,Ö,lfAfNfZfX,đ<—
%oĀ,Ā,«„Ü,·□B”F□Ø,³,é,é,Æ□Aft□[fU□[,É,lfIfbfgf□□[fN□ā,ìŽ'Ĉ¹,ÉfAfNfZfX,·,é□é□±,É•K—
v,ÉfAfJfEf“fg□î•ñ,ª—^,ì,ç,è,Ü,·□BfIfbfgf□□[fN□ā,ìŽ'Ĉ¹,Ö,lfAfNfZfXĈE ,ª•K—v,É,Ē,Ā,½,Æ,«„í□A□í,É,±
,lfAfJfEf“fg□î•ñ,ªŽg,í,é,Ü,·□BWindows NT Server fRf“fsf...□[f^,í□A•” —□“ì,É^À'S,Ā, ,è,í□Aƒ
ftfgfEfFfA,đŽg,Ā,ĀŠO” ,©,çŠ@'S,ÉŽÖ'f,Ā,«„Ü,·□B

,±,ì,æ,α,È'P^êfIfbfgf□□[fN f□fOfIf“ f,fff<,í□ARAS ft□[fU□[,É,à“K—p,³,é,Ü,·□BRAS fAfNfZfX,í□AWindows
NT ,lŠeft□[fU□[fAfJfEf“fg,É'í,μ,ĀĈĀ•Ē,É<—%oĀ,Ā,«„Ü,·□BfIfbfgf□□[fN,Éf_fCf,,f<fCf“,·,é<—%oĀ,đŠĈ—□ŽÖ,ª
—^,ì,é,Æ□Aft□[fU□[,í□AŠeŽ©,lfhf□fCf“ f□fOfIf“,đŽg,č□ARAS ,đ%oî,μ,ĀfIfbfgf□□[fN,É□Ú±,Ā,«„é,æ,α
,É,Ē,è,Ü,·□BRAS ,É,æ,Ā,Ā”F□Ø,³,é,é,Æ□Aft□[fU□[,í□Af□fOfIf“,μ,½fhf□fCf“,ìŽ'Ĉ¹,Æ□A,»„lfhf□fCf“,đ□M—
Š,μ,Ā,č,éfhf□fCf“,ìŽ'Ĉ¹,đŽg—p,Ā,«„é,æ,α,É,Ē,è,Ü,·□B

,³,ç,É□AWindows NT ,É,í□AŠĀ□, —p,lfCxf“fg frf...□[fA,ª—p^Ó,³,é,Ā,č
,Ü,·□BfVfXfef€□AfAfVfŠfP□[fVfƒf“□A,“ ,æ,ñfZfLf...fŠfefB,ÉŠÖ,·,é,·,×,Ā,lfCxf“fg,í□A^À'S,ÉŠĈ—□,³,é,Ā,č
,é'+%o>,lf□[f^fX□[fX,É<L~^,³,é,Ü,·□B“K□Ø,ÈĈ ĈĀ,ª, ,é,í□AfIfbfgf□□[fN□ā,ì,ç,±
,©,ç,Ā,à,»„lf□[f^fX□[fX,đŽQ□Æ,Ā,«„Ü,·□BfVfXfef€ fZfLf...fŠfefB,đ□NŠQ,μ,æ,α
,Æ,μ,½,è□ACE ĈĀ,đŽ□,½,·,ÉfT□[frfX,đŠJŽn,Ü,½,í'âŽ~ ,μ,æ,α,Æ,μ,½,è□A•ÚĈ¹,³,é,Ā,č
,éŽ'Ĉ¹,ÉfAfNfZfX,μ,æ,α,Æ,·,é,Æ□A,»„ì'€□,ªfCxf“fg f□fO,É<L~^,³,é,Ü,·□BŠĈ—
□ŽÖ,í□A,»„ì<L~^,đŽQ□Æ,Ā,«„Ü,·□B

RAS fT[fO]

Windows NT Server ,lŠÇ—ŹŹ,íAšf,fg fAfNfZfXŠÇ—ft[fefBfŠfefB,đŽg,Á,ÄAfšf,fg fAfNfZfX
fT[fO],iŠÇEäAfT[fU],iŽ!AfAfNfZfX,í-%ÁA,“,æ,Ńšf,fg fAfNfZfX fgf%ftfBfN,iŠÄŽ<,đšs,æ
,±,Æ,ª,Á,«,Ü,·Bšf,fg fAfNfZfXŠÇ—ft[fefBfŠfefB,lŽg,ç•ú,É,Á,ç,Ä,íARASadmin.hlp ,đŽQÆ,µ,Ä,-
,¾,¾,çB

RAS fT[fO],É,íAf}f<f f[fg fAf_fvf^,Ü,½,lf,fff€ (□•ª,ÉfpftfH[f]f“fX,đ“¾,é,É,íA9600bps ^Èã,lf,fff€
,đ,“š©,ß,µ,Ü,·)AfAfifFOŽ@“d~b%ňü□A,Ü,½,í,Ü,©,ìCE`‘Ô,ì WAN □Ú±,ª•K—v,Á,·B,Ü,½ARAS
fT[fO],É,íARAS fftfgfEfffA,afCf“fXfg□f<,¾,é,Ä,ç,È,·,é,í,È,è,Ü,¹,ňBRAS
fT[fO],đŽg,Á,ÄfBfBfgf□fN,ÉfAfNfZfX,Á,«,é,æ,æ,É,·,é□ê#f,íAfBfBfgf□fN,²,Æ,ÉCEÁ•É,lfBfBfgf□fN
fAf_fvf^ f□fh,đCf“fXfg□f<,µAŠeflBfBfgf□fN,É□Ú±,µ,É,·,é,í,È,è,Ü,¹,ňB

RAS fT[fO],íA□Á□%o,É RAS ,đfZfBfgfAfBfv,·,é,Æ,«,É□□—,¾,é,Ü,·B,±,ì,Æ,«,ÉAfNf
%ofCfAf“fg,afBfBfgf□fN‘S‘ì,ÉfAfNfZfX,Á,«,é,æ,æ,É,·,é,©□A,Ü,½,í RAS fT[fO],É,¾,~fAfNfZfX,Á,«,é,æ,æ,
,É,·,é,©,đŽw`è,µ,É,·,é,í,È,è,Ü,¹,ňB,Ü,½ALAN ,ÁŽg,afvf□fgfRf<(IPX□ATCP/IP□A,Ü,½,í NetBEUI)
,Æ□A“F□Ø^Á□+%o»,lfBfBfgf“đ‘đ,µ,É,·,é,í,È,è,Ü,¹,ňBšf,fg fAfNfZfX fvf□fgfRf<,Æ LAN
fvf□fgfRf<,í□Ú×,É,Á,ç,Ä,íA,±,lfwf·fv,ì,».,¾,é,ÉŠY“—,·,é”•ª,đŽQÆ,µ,Ä,¾,¾,çB

RAS fT[fO],lf□fg,íA□Á•É,É□□—,µ,Ü,·B,».,é,¾,é,lf□fg,íA[f_cf,·fAfEfG,ì,Ý]□A[‘...□M,ì,Ý]□A,Ü,½,í
[f_cf,·fAfEfG,Æ‘...□M],É□Y`è,Á,«,Ü,·B,±,é,ç,í□Y`è,ª“K—p,¾,é,é,í,íA,·,x,Ä,lf□fg,Á,í,È,□AZw`è,µ,½f
□fg,É,¾,~,Á,·B,½,Æ,ì,íAfNf%ofCfAf“fg,afBfBfgf□fN‘S‘ì,ÉfAfNfZfX,Á,«,é,æ,æ,É□ARAS fT[fO],í COM1
,đ...□M—p,É□ACOM2 ,đf_cf,·fAfEfG—p,Æ‘...□M—p,É□□—,Á,«,Ü,·B,±,í□ê#Afšf,fg
ft[fU],í,ç,ç,ì COM f□fg,É,àR□f_cf“Á,«,Ü,·,ªAf□□fj< ft[fU],ª□M—p,ì RAS fR□f<,ÉŽg—
p,Á,«,é,ì,í□ACOM2 ,¾,~,Á,·B

fCxf“fg,ÆfGf%□,íAWindows NT RAS fNf%ofCfAf“fgã,“,æ,ŃfT[fO],lfCxf“fg frf...
□fA,É~L^,¾,é,Ü,·BfCxf“fg frf...□fA,lf□O,đ²,x,é,±,Æ,É,æ,è□A-â`è,ìCE`^ò,đ“Á`è,Á,«,Ü,·B

RAS ,đCf“fXfg□f<,µA□□—,·,é,É,íAfRf“fg□□f< fpflf<,ì [fBfBfgf□fN] ,đŽg,ç
,Ü,·B,Ü,½AfT□fRfX,lfXf^□fgfAfBfv flfvVfj“đŽw`è,·,é,É,íAfRf“fg□□f< fpflf<,ì [fT□fRfX] ,đŽg,ç
,Ü,·B

Windows NT Server ,ì RAS ,Á,íA□Á`á 256 ,lfšf,fg fNf%ofCfAf“fg,ª RAS
fT[fO],Éf_cf,·fAfCf“Á,«,Ü,·BRAS fT[fO],íAfNf%ofCfAf“fg,afBfBfgf□fN‘S‘ì,ÉfAfNfZfX,Á,«,é,æ,æ,É□
□—,·,é,±,Æ,à□A,».,ì RAS fT[fO],íŽ`CE¹,É,µ,©fAfNfZfX,Á,«,É,ç,æ,æ,É□ŠÇÀ,·,é,±,Æ,à,Á,«,Ü,·B

RAS ,lfCf“fXfg□f<,Æ□□—,í□Ú×,É,Á,ç,Ä,íA□uf_cf,·fAfBfv flBfBfgf□fN (RAS)
,đCf“fXfg□f<,·,é□v,đŽQÆ,µ,Ä,¾,¾,çB

LAN fvf[]fgfRf<

Windows NT ,Á,í[]ATCP/IP[]AIPX[]ANetBEUI ,È,Ç,ì LAN fvf[]fgfRf<,Æ[]APPP[]ASLIP[]AMicrosoft RAS fvf[]fgfRf<,È,Ç,ìfŠf,[]fg fAfNfZfX fvf[]fgfRf<,ðfTf[]fg,μ,Ä,ç,Û,·[]BLAN fvf[]fgfRf<,í[]ALAN (f[]fj< fGfŠfA flfbfgf[]fN) ,ð%oi,μ,ÄffpPfbfg,ð“`—,μ,Û,·[]B^è•û[]AfŠf,[]fg fAfNfZfX fvf[]fgfRf<,í[]AWAN (f[]fCfh fGfŠfA flfbfgf[]fN) ,ð%oi,μ,Äff[]f^,ì“`—,ð[]\$CEä,μ,Û,·[]B[]Ú[]×,É,Ä,ç,Ä,í[]A[]ufŠf,[]fg fAfNfZfX fvf[]fgfRf<[]v,ðŽQ[]Æ,μ,Ä,,¾,¾,¾,ç[]B

RAS ,ð[]\[]¬,μ[]AŠù‘¶,ìf[]fbfgf[]fN,Æ“[][]±,·,é[]ê[]±[]AŠù‘¶,ìf[]fbfgf[]fN,ÄŽg,í,è,Ä,ç,éfvf[]fgfRf<,í[]ACEv %oæ[]ä,ì[]d—v,È—v’f,É,È,è,Û,·[]B

Windows NT RAS ,í[]ATCP/IP[]AIPX[]A,“,æ,Ñ NetBEUI ,ðfTf[]fg,μ,Ä,ç,Û,·[]B,±,±,Ä,ç,xfTf[]fg,Æ,í[]APPP fŠf,[]fg fAfNfZfX<KŠi,É[]),Ä,Ä,ç,éŠù‘¶,ì Microsoft[]AUNIX[]A,Û,½,í NetWare flfbfgf[]fN,É[]AWindows NT RAS ,ð“[][]±,Ä,«,é,±,Æ,ð^Ó-ì,μ,Û,·[]B,Û,½[]AWindows NT RAS fNf%ofCfAf“fg,í[]AŠù‘¶,ì SLIP fx[]fX,ìfŠf,[]fg fAfNfZfX fT[]fo[](Žã,É UNIX fT[]fo[]() ,É,à[]Ú‘±,Ä,«,Û,·[]B

RAS ,ðfCf“fXfg[]f<,μ[]A[]\[]¬,·,é,Æ[]AŠù,ÉfRf“fsf...[]f^,ÉfCf“fXfg[]f<,¾,è,Ä,ç,éfvf[]fgfRf< (TCP/IP[]AIPX[]A,“ ,æ,Ñ NetBEUI) ,ì,ç,·,è,Ä,à[]ARAS ,ì’—[]MCEÄ,Ñ[]o,μ,Æ’...[]MCEÄ,Ñ[]o,μ,É‘í,μ,ÄŽ©“®“ì,É —LCEø,É,È,è,Û,·[]B

,Û,½[]ARAS ,ðfCf“fXfg[]f<,·,é,Æ,«,É[]AfNf%ofCfAf“fg,ð LAN ‘S’ì,ÉfAfNfZfX,Ä,«,é,æ,±,É,·,é,©,Ç,± ,©,ðŽw’è,μ,È,¬,è,ì,È,è,Û,¹,ñ[]BŽw’è,μ,È,ç[]ê[]±[]Aft[]fU[](,í RAS fT[]fo[](,É,μ,©fAfNfZfX,Ä,«,É,- ,È,è,Û,·[]BTCPIP ,Û,½,í IPX ,ðŽg,Ä,Ä LAN ‘S’ì,ÉfAfNfZfX,Ä,«,é,æ,±,É,·,é[]ê[]±,í[]AIP fAfhfCefX,Û,½,í IPX flfbfg“Ö[]±,ðfT[]fo[](,©,ç’ñ<ÿ,·,é•û-@,à[]\[]¬,μ,È,¬,è,ì,È,è,Û,¹,ñ[]BNetBEUI ,ðŽg,Ä,ÄfAfNfZfX,Ä,«,é,æ,± ,É,·,é[]ê[]±,í[]A,±,ì,æ,±,É[]\[]¬,í•K—v, ,è,Û,¹,ñ[]B

ŠÖ~A[]€-Ú

IPX ,Æ RAS

TCP/IP ,Æ RAS

NetBEUI ,Æ RAS

IPX ,Æ RAS

IPX ,íA^½,,ì Novell flfbfgf[]fN,ÅŽg,í,è,Ä,ç,é NetWare “ÆŽ©,lfvf[]fgfRfç,Å,·BIPX ,íAfç[]fefBf“fO%oÅ”\ ,Éfvf[]fgfRfç,È,ì,ÅASéçÆ“àflfbfgf[]fN,É“K,μ,Ä,ç,Ü,·B,±,±,Å,íAWindows NT RAS fNf %ofCfAf“fg,“,æ,ÑfT[]fo[][,ð NetWare IPX flfbfgf[]fN,É“[]fç,·,é•û-@,É,Ä,ç,Äà-¾,μ,Ü,·B[]Ú[]x,É,Ä,ç ,Ä,íA[]wf[]fbfgf[]fN fKfCfh[]x,ðŽQ[]Æ,μ,Ä,,¾,¾,ç[]B

Windows NT ,É,æ,é NetWare fTf[]fg

Windows NT RAS fRf“fsf...[]f^,Å Novell NetWare flfbfgf[]fN,ðŽQ[]Æ,μ,È,·,í,È,ç,È,ç[]è[]fç,íAfNf %ofCfAf“fg fRf“fsf...[]f^,Å NetWare fŠf_fCfçfNf^,ðŽÅ[]s,μ,È,·,è,í,È,è,Ü,¹,ñ[]B,± ,ífŠf_fCfçfNf^,íAWindows NT Workstation fRf“fsf...[]f^,Å,íA“Client Service for NetWare” ,ÆCEÄ,ì,è,Ä,“,è[]AWindows NT Server fRf“fsf...[]f^,Å,íA“Gateway Service for NetWare” ,ÆCEÄ,ì,è,Ä,ç ,Ü,·B

,Ü,½[]AWindows NT RAS fT[]fo[][,íAIPX fç[]f^[][]A,“,æ,Ñ RAS fNf%ofCfAf“fg[]è—p,ì SAP (Service Advertising Protocol) fG[]fWfFf“fg,Æ,μ,Ä,àç@“\,μ,Ü,·BRAS fT[]fo[][,Æ RAS fNf%ofCfAf“fg,íARFC 1552 ,Ä'èç`³,è,Ä,ç,é PPP IPXCP (Internetwork Packet Exchange Control Protocol)[] fCf“f^[]f[]fbfgf[]fN fpfPfbfgçèŠ·[]\$CEäfvf[]fgfRfç) ,ðŽg,Ä,Ä[]AIPX —p,ífŠf,[]fg fAfNfZfX%ñü,ð[] []-,μ,Ü,·B[]B[]-,·,·,é,Æ[]ARAS fT[]fo[][,Ä,íA[]ARAS fNf%ofCfAf“fg,©,ç NetWare flfbfgf[]fN[]ä,ì IPX ,ð %oì,μ,Ä[]Aftf@fCfç fT[]f[]r[]X[]A^óüfT[]f[]r[]X[]A,“,æ,Ñ Windows Sockets fAfVfŠfP[]fVf#f“,ð— — p,Ä,«,é,æ,æ,É,È,è,Ü,·B

RAS fT[]fo[][,É,æ,è[]AfNf%ofCfAf“fg,íAIPX flfbfg”Ô[]t,ðŽg,Ä,Ä IPX flfbfgf[]fN,É[]Ú'±,Ä,«,é,æ,æ ,É,È,è,Ü,·B,Ü,½[]ARAS fT[]fo[][,í SAP fG[]fWfFf“fg,Æ,μ,Ä,àç@“\,μ,Ü,·BŽÿ,É[]AIPX fvf[]fgfRfç,ðŽg,ç[]è[]fç,É Windows NT RAS ,Ä—~—p,Ä,«,é,éAfhfçfXŽw'è,lf[]fv[]Vf#f“,É,Ä,ç,Äà-¾,μ,Ü,·B

fŠf,[]fg fNf%ofCfAf“fg,ì IPX fAfhfçfXŽw'è

RAS fNf%ofCfAf“fg,ì IPX fAfhfçfX,íA·K, , RAS fT[]fo[][,©,ç'ñçÿ,³,è,Ü,·BIPX flfbfgf[]fN”Ô[]t,íAARAS fT[]fo[][,É,æ,Ä,ÄŽç@“@“l,É[]f[]-³,è,é,©[]A,Ü,½,í RAS fT[]fo[][,É[]Ý'è,³,è,Ä,ç ,é[]Ä“l,Èflfbfgf[]fN”Ô[]t,lfv[]fç,©,ç[]ARAS fNf%ofCfAf“fg,ÉŠ,,è“- ,Ä,ç,è,Ü,·B

IPX flfbfgf[]fN”Ô[]t,ðŽç@“@“l,É[]f[]-³,è,é,é[]è[]+[]AWindows NT RAS fT[]fo[][,íA[]NetWare RIP (Routing Information Protocol)[] fç[]fefBf“fO[]ñfvf[]fgfRfç) ,ðŽg,Ä,Ä[]AIPX flfbfgf[]fN,ÅŽg,í,è,Ä,ç,È,ç IPX flfbfgf[]fN”Ô[]t,ðCE'è,μ,Ü,·BRAS fT[]fo[][,íA,»,”Ô[]t,ðfŠf,[]fg fNf%ofCfAf“fg,ÉŠ,,è“- ,Ä,Ü,·B flfbfgf[]fN”Ô[]t,ìŽç@“@Š,,è“- ,Ä,íA-³CEø,É,·,é,±,Æ,à,Ä,«,Ü,·BfZfLf... fŠfefB,Ü,½,íŠÄŽç,ì,½,B,Éflfbfgf[]fN”Ô[]t,ìŠ,,è“- ,Ä,ðŠç— []ŽŽç@[]g,³[]\$CEä,μ,½,ç[]è[]fç,íAf[]fbfgf[]fN”Ô[]t,ðŽè@ ,ÄŠ,,è“- ,Ä,é,±,Æ,à,Ä,«,Ü,·BIPX flfbfgf[]fN”Ô[]t,ð RAS fNf%ofCfAf“fg,ÉŠ,,è“- ,Ä,é,Æ,«,íA[]d·i,·,éflfbfgf[]fN”Ô[]t,ðŠ,,è“- ,Ä,Ä,ç,È,ç,± ,Æ,Æ[]A,Ü,©,ì NetWare fT[]f[]r[]X,³ RAS —p,ì IPX fAfhfçfX,ðŠ,,è“- ,Ä,é,±,Æ,³,è,ç,±,Æ,ðŠm”F,μ,Ä,- ,¾,¾,ç[]B,Ü,½[]A,·,x,Ä,lfNf%ofCfAf“fg,É““,íf[]fbfgf[]fN”Ô[]t,ðŠ,,è“- ,Ä,Ä[]ARAS fT[]fo[][,©,ç,ì RIP 'É'm,ð[]Ä[]-CEÄ,É,·,é,±,Æ,à,Ä,«,Ü,·B

TCP/IP ,Æ RAS

TCP/IP ,íA□Á,à□L,Žg,í,ê,Ä,ç,évf□fgfRf<,ì 1 ,.Ä,Ä,□B,».,ìf<□[fefBf"fo"\—
í,í□AŠé<Æ"áfjfbfgf□□[fN,Ä□Á'âCEÀ,ì□_ "í□<,ð'ñ<Ÿ,μ,Ü,□B

TCP/IP flfbfgf□□[fN,Ä,í□AfNf%ofCfAf"fg,É IP fAfhfCEfX,ð□Ÿ'è,μ,È, ,è,î,È,è,Ü,¹,ñ□B,Ü,½□AfNf
%ofCfAf"fg,É,í□A-¼'O•t, ,fT□[fxfX,Ü,½,í-¼'O%oðCE^,îŽè'i,^a•K—v,É,È,é□ê□‡,à, ,è,Ü,□B,±,±,Ä,í□ATCP/IP
flfbfgf□□[fN□ä,ì Windows NT RAS fT□[fo□[, ,æ,ñfNf%ofCfAf"fg,É,æ,é□AIP fAfhfCEfX,îŠ,,è"—,Ä,Æ-¼'O
%oðCE^,É,Ä,ç,Ä□à-¾,μ,Ü,□B

Microsoft TCP/IP fv□fgfRf<,ðflfbfgf□□[fN,ÉŽÄ'•, ,é•û-@,É,Ä,ç,Ä,í□A□wflfbfgf□□[fN fKfCfh□x,ì□u'æ 1
□□@Microsoft TCP/IP for Windows NT , ,æ,ñŠÖ~AfT□[fxfX□v,ðŽQ□Æ,μ,Ä,,¾,¾,¾,ç□B

RAS fNf%ofCfAf"fg,Ö,ì IP fAfhfCEfX,îŠ,,è"—,Ä

Windows NT ,Ä,í□AMicrosoft TCP/IP flfbfgf□□[fN□ä,Ä PPP ,ð%oî,μ,Ä RAS fT□[fo□[,É□Ú'±, ,éšefŠf,□[fg
fRf"fsf...□[f^,É'í,μ,Ä□AfZfbfgfAfbfvŽž,ÉŠÇ—□ŽÖ,^a RAS fT□[fo□[,ÉŠ,,è"—,Ä,½□Ä'í,È IP
fAfhfCEfX,ì'í'í,©,ç□AZ"©"@"í,È IP fAfhfCEfX,^añ<Ÿ,³,é,Ü,□B

,Ü,½□AWindows NT RAS fNf%ofCfAf"fg,í□A'd~b', ÉŽw'è,³,è,Ä,ç,é, ,ç,©,¶,ßŠ,,è"—,Ä,ç,è,½ IP
fAfhfCEfX,ðŽg,±,±,Æ,à,Ä,«,Ü,□B,±,ì□ê□‡,í□AWindows NT RAS fT□[fo□[,í□Aft□[fU□[,^a"Ä'è,ìfAfhfCEfX,ð—
v<□,Ä,«,é,æ,±,É□□—,μ,È, ,è,î,È,è,Ü,¹,ñ□B

RAS fT□[fo□[,Æ RAS fNf%ofCfAf"fg,ì-¼'O%oðCE^

TCP/IP flfbfgf□□[fN□ä,ì RAS fT□[fo□[,Æ RAS fNf%ofCfAf"fg,É,í□AIP fAfhfCEfX,É%oÁ,í,Ä□AfRf"fsf...□[f^—
¼,ð IP fAfhfCEfX,Éf}fbfss"fo, ,é<@□\,^a•K—v,É,È,é□ê□‡,^a, è,Ü,□BWindows NT flfbfgf□□[fN,Ä,í□AWINS
(Windows Internet Name Service□F Windows fCf" f^□[flfbfgf f□[f€ fT□[fxfX)□Afuf□□[fhfLfffXfg,É,æ,é—
¼'O%oðCE^□ADNS (Domain Name System□F fhf□[Cf" f□[f€ fVfXfef€)□A, ,æ,ñ HOSTS ftf@fCf<,Æ
LMHOSTS ftf@fCf<,Æ,ç,±□A-¼'O%oðCE^,ì,½,ß,ì 4 ,Ä,ìfjfvfj" ,ð—~—p,Ä,«,Ü,□B

RAS fT□[fo□[,Ä,í□Aft□[fo□[□ä,ÄŽÀ's, ,é€□í,É□A,±,è,ç, ,x,Ä,ì-¼'O%oðCE^,ìŽè'i,ðŽg—p,Ä,«,Ü,□B

RAS fNf%ofCfAf"fg,É,í□ARAS fT□[fo□[,ÉŠ,,è"—,Ä,ç,è,Ä,ç,é WINS fT□[fo□[, ,æ,ñ DNS fT□[fo□[,Æ"—,¶
WINS fT□[fo□[,Æ DNS fT□[fo□[,ÉŠ,,è"—,Ä,ç,è,Ü,□B,±,ìŽ"©"Š,,è"—,Ä,ð—
³CEø,É, ,é,É,í□AfCEfWfXfgfŠ,ð•ï□X,μ,Ü,□B

IP fAfhfCEfX,^aï□X,³,é,è,±,Æ,ì,È,ç□—<K-í,Éflfbfgf□□[fN,Ä,í□ARAS fNf%ofCfAf"fg,ì-¼'O%oðCE^,É HOSTS
ftf@fCf<,Ü,½,í LMHOSTS ftf@fCf<,ðŽg—p,Ä,«,Ü,□Bf□□[fj< fhf%ofCfu□ä,ì,±,è,ç,ìftf@fCf<,ðŽg,±
,Æ□Af,fff€,ð%oî,μ,Ä WINS fT□[fo□[,É-¼'O%oðCE^—v<□,ð""—,μ,½,è□A%ož"š,ð'Ò,Ä,½,è, ,é•K—
v,^a, è,Ü,¹,ñ□B

Microsoft TCP/IP flfbfgf□□[fN,ì-¼'O%oðCE^,É,Ä,ç,Ä,í□A□wflfbfgf□□[fN fKfCfh□x,ì□u'æ 3 □í□@TCP/IP ,ì□
□—,Æ-¼'O%oðCE^fT□[fxfX□v,ðŽQ□Æ,μ,Ä,,¾,¾,¾,ç□B

IP ,É,æ,éft□[fh fp□[fefB□>fŠf,□[fg fAfNfZfX fT□[fo□[,Ö,ì□Ú'±

Windows NT RAS fT□[fo□[,Ä,í□AfŠf,□[fg fNf%ofCfAf"fg,^a LAN □ä,ìfRf"fsf...□[f^,Æftfufjfbfg fAfhfCEfX,ð<±
—L, ,é,±,±,Æ,É,æ,è□AIP fAfhfCEfX,ð□β-ñ,Ä,«,Ü,□B

,Ü,©,ìf□□[fj□[,ìfŠf,□[fg fAfNfZfX fT□[fo□[,Ä,í□AfŠf,□[fg fNf%ofCfAf"fg,^a LAN □ä,ìfNf
%ofCfAf"fg,Æ^Ü,È,éftfufjfbfg fAfhfCEfX,ðŽg,½,È, ,è,î,È,ç,È,ç,±,Æ,^a, è,Ü,□BfŠf,□[fg fNf
%ofCfAf"fg,^a,Ü,©,ìf□□[fj□[,ìfŠf,□[fg fAfNfZfX fT□[fo□[,Éf fCf, fCfCf",Ä,«,Ä,à□ALAN □ä,ìŽ'CE',É□Ú'±
,Ä,«,É,ç□ê□‡,í□AfŠf,□[fg fAfNfZfX fT□[fo□[,ì□□—,É,Ä,ç,Ä□AZŸ,ì"_ ,ð²,x,Ä,,¾,¾,¾,ç□B

fT□[fh fp□[fefB,ìfŠf,□[fg fAfNfZfX fT□[fo□[,^a□Avf□fLfv ('ä—□) ARP (Address Resolution Protocol□F
fAfhfCEfX%oðCE^fv□fgfRf< ,ðftf□[fg,μ,Ä,ç,È,ç□ê□‡□AfŠf,□[fg fNf%ofCfAf"fg,É,í□ALAN fNf
%ofCfAf"fg,Æ^Ü,È,éftfufjfbfg fAfhfCEfX,ðŠ,,è"—,Ä,È, ,è,î,È,è,Ü,¹,ñ□BLAN □ä,Ä^èÓ,ìftfufjfbfg
fAfhfCEfX,ðfŠf,□[fg fNf%ofCfAf"fg,ÉŠ,,è"—,Ä,é,æ,±,Éft□[fo□[,^a□□—,³,è,Ä,ç,é,©,Ç,±,©,ðŠm" F,μ,Ü,□B
fŠf,□[fg fAfNfZfX fNf%ofCfAf"fg,©,çf^□[fQfbfg fzxfjg,É'í,μ,Ä□A,»,μ,Ä"½'í,Éf^□[fQfbfg

fzfXfg, ©, ċfŠf, □lfg fAfNfZfX fNf%oCfAf“fg, É‘í, μ, Ā□Aping , đŽg—p, Ā, «, é, æ, x, ÉfJfbfgf□□fN f^□□, ā□
□~ , ³, ê, Ā, ċ, é, ©, Ć, x, ©, đŠm“F, μ, Ü, ·□B, » , ÌĒã□AZÿ, Ì, æ, x, Ê□#□~ , Ā ping , đŽÀ□s, μ, Ü, ·□B

1 fŠf, □lfg fNf%oCfAf“fg, ©, ċf^□□fQfbfg fT□□fo□□□AfŠf, □lfg fNf%oCfAf“fg, ©, ċfŠf, □lfg fAfNfZfX
fT□□fo□□□AZÿ, É□AfŠf, □lfg fAfNfZfX fT□□fo□□, ©, ċf^□□fQfbfg fT□□fo□□

2 f^□□fQfbfg fT□□fo□□, ©, ċfŠf, □lfg fNf%oCfAf“fg□Af^□□fQfbfg fT□□fo□□, ©, ċfŠf, □lfg fAfNfZfX
fT□□fo□□□AZÿ, É□AfŠf, □lfg fAfNfZfX fT□□fo□□, ©, ċfŠf, □lfg fNf%oCfAf“fg

TCP/IP flfbfgf□□fN□ā, Ì SLIP

SLIP (Serial Line Internet Protocol□F fVfŠfAf<%oňüfCf“f^□□flfbfg fvf□fgfRf<) , ÌfTf□□lfg, É, æ, è□AWindows
NT RAS fNf%oCfAf“fg, Ì□ASLIP fŠf, □lfg‘É□M<KŠi, đŽg, Ā, Ā, ċ, éfT□□fh fp□□fefB, ÌfŠf, □lfg fAfNfZfX
fT□□fo□□, É□Ú‘±, Ā, «, ·□BfNf%oCfAf“fg, ā SLIP , đŽg—p, Ā, «, é, Ì, Ì□A“d~b’ , ÌfGf“fgfŠ, É□Y‘è, ³, ê, Ā, ċ, éf
□lfg, āfVfŠfAf< COM f□□lfg, Ì□é□# , ¾, ~ , Ā, ·□B

ft□□fU□□, ā SLIP fT□□fo□□, É□Ú‘± , ·, é, Æ□AUNIX SLIP fT□□fo□□, É‘î~b“i, Éf□□Ofif“ , ·, é, ½, ß, Ìf^□□f~fif<
f_CfAf□□fo, ā•\Ž| , ³, ê, Ü, ·□BUNIX f□□Ofif“ , ā—D□æ, ³, ê□ARAS f□□Ofif“ , ā•\Ž| , ³, ê, É, ċ, æ, x
, É, È, è, Ü, ·□B^è“x□Ú‘±, āŠm—š, ³, ê, é, Æ□AfŠf, □lfg flfbfgf□□fN fAfNfZfX, Ìf†□□fU□□, ©, ċ“š%oß“i, É, È, è, Ü, ·□B

NetBEUI ,Æ RAS

NetBEUI , íA -<K-í, Èf [fNfOf< [fv, â LAN , É“K, μ, ½fvf [fgfRf<, Å, ·BNetBIOS fQ [fgfEfFfC, Æ NetBEUI fNf%oCfAf“fg fvf [fgfRf<, íA, ·, x, Ä, ì Windows NT RAS fT [fo [,Æ'å·"·ª, ì Windows flfbfgf [fN fNf %oCfAf“fg, ÉŠù'è, ìÝ'è, ÅfCf“fXfg [f<, ³, è, Ü, ·B^È'O, ìfo [fWf#“ , ì Windows NT ALAN Manager A, ”, æ, Ñ MS-DOS , ì ŠeRAS fNf%oCfAf“fg, É, íANetBEUI,ª·K—v, Ä, ·B

f_fCf,,f-fAfbfv flfbfgf[]fN (RAS) ,dfCf"fxfg[]f<.,é

RAS ,dfCf"fxfg[]f<.,éŽè[]f,íAŠù,ÉfCf"fxfg[]f<.,é,Ä,ç,éflfbfgf[]fN fvf[]fgfRf<,É,æ,Ä,Ä'½-
^Ü,È,è,Ü,·[]BTCIP ,Ü,½,í IPX fvf[]fgfRf<,đ RAS ,Æ'g,Ý[]f,í,¹,ÄŽg,æ[]è[]f,í[]ARAS
,dfCf"fxfg[]f<.,é'Ó,É[]A,» ,lfvf[]fgfRf<,dfCf"fxfg[]f<,µ,Ä,,¾,¾,ç[]BRAS ,dfCf"fxfg[]f<.,é,Æ,« ,É[]ARAS
,ÄŽg,æfvf[]fgfRf<,², ,ç, ©, ¶,ßfCf"fxfg[]f<.,é,Ä,ç,É,ç[]è[]f[]ARAS ,lfzfbfgfAfbfv,ì[]—
¹CEä,É[]A,» ,lfvf[]fgfRf<,lfCf"fxfg[]f<,đ<.,ß,é[]fbfZ[]fW,²·\Ž!,³,è,Ü,·[]BSevf[]fgfRf<,lfCf"fxfg[]f<·û-
@,É,Ä,ç,Ä,í[]A[]wWindows NT Server ftj@[]fXfg fXfefbfv fKfCh[]x,đŽQ[]Æ,µ,Ä,,¾,¾,ç[]B
RAS ,dfCf"fxfg[]f<,µ[]A[]-.,é,É,í[]AAdministrators
fOf<[]fv,lf[]"fo[][,Æ,µ,Äf[]fOf[]f",µ,È, ,è,í,È,è,Ü,¹,ñ[]B

fŠf,[]fg fAfNfZfX f\ftfgfEjFfA,đ'Ç%oÁ,.,é,É,í

- 1 frf"fgf[]f< fpf[]f,ì [flfbfgf[]fN] fAfCfRf",df_fuf<fNfŠfbfN,µ,Ü,·[]B
- 2 [ft[][frfX] f^fu,ì ['Ç%oÁ] ,dfNfŠfbfN,µ,Ü,·[]B
- 3 [flfbfgf[]fN ft[][frfX] f{fbfNfX,©,ç [fŠf,[]fg fAfNfZfX ft[][frfX] ,đ'í'đ,µ[]AZŽ,É [OK] ,dfNfŠfbfN,µ,Ü,·[]B
- 4 "z-zftf@fCf<,lfpfX,đ"ü—í,.,é,æ,æ,É<.,ß,é_fCfA[]fO f{fbfNfX,²·\Ž!,³,è,½,ç[]AfpfX,đ"ü—í,µ[]AZŽ,É
['±s] ,dfNfŠfbfN,µ,Ü,·[]B

RAS ,lf[]@fCf<,æRf"fsf...[]f^ ,ÉfRfs[][,³,è,Ü,·[]B
5 %oæ-É,É·\Ž!,³,è,éŽwŽ!,É[]],ç[]A'í'đ,µ,½f[]fg,É[]Ú'±,³,è,Ä,ç,é,f,ff€ ,đŽ© "®CEÿ[]o,³,¹,é,©[]A,Ü,½,lf[]f[]
[]fg,³,è,Ä,ç,é,f,ff€ ,ì^è—,©,ç,f,ff€ ,đ'í'đ,µ,Ü,·[]B

6 [RAS fffofCfX,ì'Ç%oÁ] f_fCfA[]fO f{fbfNfX,Ä[]AfŠf,[]fg fAfNfZfX ft[][frfX,ÉŽg,æf[]fg,đ'í'đ,µ[]A[OK]
,dfNfŠfbfN,µ,Ü,·[]B}f<f[]fg fAf_fvf^[]AISDN f[]f[]h[]AX.25 f[]f[]h[]A,Ü,½,í,» ,ì'¼,lf[]ffofCfX,²³,µ,-
fCf"fxfg[]f<,³,è,Ä,ç,é,ç[]è[]f,í[]A,» ,è,ç,lf[]ffofCfX,²è—,É·\Ž!,³,è,Ü,·[]B

- 7 [fŠf,[]fg fAfNfZfX fzfbfgfAfbfv] f_fCfA[]fO f{fbfNfX,ì []- ,dfNfŠfbfN,µ,Ü,·[]B
- 8 [f[]fgŽg—p,ì[]-] f{fbfNfX,ÄŽY,ì,ç,.,é,©,đ'í'đ,µ[]A[OK] ,dfNfŠfbfN,µ,Ü,·[]B
· frf"fsf...[]f^ ,đ RAS fNf%ofCfAf"fg[]è—p,ÉŽg,æ[]è[]f,í[]A[f_fCf,,f-fAfEfg,ì,Ý] ,dfNfŠfbfN,µ,Ü,·[]B
· frf"fsf...[]f^ ,đ RAS ft[][fo[][]è—p,ÉŽg,æ[]è[]f,í[]A['...[]M,ì,Ý] ,dfNfŠfbfN,µ,Ü,·[]B
· frf"fsf...[]f^ ,dfNf%ofCfAf"fg,Æ,µ,Ä,àft[][fo[][,Æ,µ,Ä,àŽg—p,Ä,« ,é,æ,æ,
,É,.,é[]è[]f,í[]A[f_fCf,,f-fAfEfg,Æ'...[]M] ,dfNfŠfbfN,µ,Ü,·[]B,½,¾,µ[]AfNf%ofCfAf"fg,Æft[][fo[][,ì—¼·û,ì<@"\
,đ"ŽŽ,ÉŽg,æ,±,Æ,í,Ä,« ,Ü,¹,ñ[]B

9 RAS flfbfgf[]fN'S'ì,ì[]ý'è,đ[]-.,é,É,í[]A[flfbfgf[]fN] ,dfNfŠfbfN,µ,Ü,·[]B[]x,É,Ä,ç,Ä,í[]A[]uLAN
fvf[]fgfRf<,đŽg,æ,æ,æ,É RAS ,đ[]-.,é[]v,đŽQ[]Æ,µ,Ä,,¾,¾,ç[]B

'[] fŠf,[]fg fAfNfZfX,lfCf"fxfg[]f<,Æ[]- ,đ—LCEø,É,.,é,É,í[]AfRf"fsf...
[]f^ ,đ[]Ä<N"® ,µ,È, ,è,í,È,è,Ü,¹,ñ[]B

- fŠf,[]fg fAfNfZfX f\ftfgfEjFfA,É,í[]AZŽ,lfAfvfŠfP[]fVfj",²SÜ,Ü,è,Ä,ç,Ü,·[]B
▪ f_fCf,,f-fAfbfv flfbfgf[]fN[]BRAS ,lfNf%ofCfAf"fg fo[]fWfj",Ä,·[]Bf_fCf,,f-fAfbfv ft[][fo[][,É[]Ú'±
,.,é,½,ß,ÉŽg,ç,Ü,·[]B[f_fCf,,f-fAfbfv flfbfgf[]fN] fAfCfRf",í[]A[f]fC fRf"fsf...[]f^] fEfBj"fhfE,Æ[]A[fXf^[]fg]
f[]fj...[][,ì [fvf[]fOf%of€] f[]fj...[][,ì [fAfNfZfTfŠ] ftfHf<f_É, ,è,Ü,·[]B
▪ f_fCf,,f-fAfbfv flfbfgf[]fN f.fjf^[]B[]Ú'±,ÆffofCfX,ì[]ó'Ö,đŠÄŽ<.,é,½,ß,ÉŽg,ç,Ü,·[]BfRf"fgf[]f<
fpf[]f<,É, ,è,Ü,·[]B
▪ fŠf,[]fg fAfNfZfXŠÇ—[]BRAS ft[][fo[][,É[]Ú'±,µ,Ä,ç,é,fŠf,[]fg ft[][fU[][,đŠÄŽ<.,é,½,ß,ÉŽg,ç
,Ü,·[]B[fXf^[]fg] f[]fj...[][,ì [fvf[]fOf%of€] f[]fj...[][,ì [ŠÇ—[]fc[]f< (<—L)] ftfHf<f_É, ,è,Ü,·[]B

RAS ,lfn [fhfEjFfA,ì—vCE

RAS ,đfCf“fXfg [f<,·,é‘O,ÉA,·,x,Ä,lfn [fhfEjFfA,đfCf“fXfg [f<,³,êA³í,É“®ì,μ,Ä,ç,é,±,Æ,đŠm“F,μ,È,̄,ê,Î,È,è,Û,¹,ñBŽg—p,·,éflfbfgf [fN,Æ—vCE,É%ž,¶,ÄAZŸ,lfn [fhfEjFfA,ª•K—v,É,È,é,±,Æ,ª, ,è,Û,·B

- flfbfgf [fN fAf_fvf^ fj [fh,Æ NDIS (Network Driver Interface Specification F flfbfgf [fN fhf %oCfo fCf“f^ [ftfFfCfX<K-ñ) [€<,lhf%oCfo
- ,P ‘ä^Èä,ìCEÝŠ·<,ì, ,éf,fff€ (wfn [fhfEjFfACEÝŠ·<fŠXfgx,Û,½,ÍŠf, [fg fAfNzfx ,lfZfbfgfAfbfv fvf [fO%o€,đŽQAE)A, ,æ,Ñ—~—p%oÄ“,È COM fj [fg
- f}f<f [fg fAf_fvf^ fj [fh (·i“,lfŠf, [fg [U’±,đŠm—š,μ,½ê¶,É•K—v,ÈfpftfH [f}f“fX,đŽACE>,·,é,½,ß)
- X.25 fXf} [fg fj [fh (X.25 flfbfgf [fN,đŽg,¶ê¶)
- ISDN fj [fh,Û,½,Íf,fff€ (ISDN %oñü,đŽg,¶ê¶)

Windows NT fRf“fsf...

[f^,ì,·,x,Ä,lfn [fhfEjFfA,ìCEÝŠ·<,đŠm“F,·,é,É,ÍA wfn [fhfEjFfACEÝŠ·<fŠXfgx,đŽQAE,μ,Ä,·,¾,³,çB

LAN fvf[]fgfRf<,đŽg,æ,æ,É RAS ,đ[]-.,.é

RAS ,í[]ALAN ,Ö,í[]AfNfZfX,đ'ñ<ÿ,µ,Ü,·[]B,±,ì,½,ß[]ALAN ,ÁŽg,æfvf[]fgfRf<,đ'í'đ,µ[]A[]
[]-.,µ,È,·,é,ì,È,è,Ü,¹,ñ[]BWindows NT Workstation fRf"fsf...[]f^,Æ Windows NT Server fRf"fsf...
[]f^,í[]ARAS fNf%ofCfAf"fg,Æ RAS fT[]fo[][,ì,ç,.,é,È,à[]-.,Á,«,é,ì,Á[]ARAS fNf%ofCfAf"fg,Æ RAS
fT[]fo[][,ÁŽg,æ LAN fvf[]fgfRf<,đ,».,é,¼,é[]-.,µ,È,·,é,ì,È,è,Ü,¹,ñ[]BRAS ,ÉŽg,æf[]fg,ìŽg—p-
@,ìŽw'è,É,æ,Á,Á[]ARAS fRf"fsf...[]f^,đfNf%ofCfAf"fg,É,·,é,©[]AfT[]fo[][,É,·,é,©,æ^,Ü,è,Ü,·[]B
LAN fvf[]fgfRf<,ìÿ'è,í[]ARAS ,ÉŽg—p%oÁ"\\,È,·,x,Ä,ìf[]fg,É'í,·,é RAS ,ì,·,x,Ä,ì'è[],É"K—
p,³,è,Ü,·[]B,½,Æ,ì,í[]A"Á'è,ì RAS fGf"fgfŠ,Á TCP/IP ,đŽg,æ,æ,Éÿ'è,·,é,É,í[]A ,ç,©,¶,ß RAS fRf"fsf...
[]f^,ÁTCP/IP ,đŽg—p,Á,«,é,æ,æ,É,µ,Ä,·,©,È,·,é,ì,È,è,Ü,¹,ñ[]B

LAN fvf[]fgfRf<,đŽg,æ,æ,É RAS ,đ[]-.,.é,É,í

- 1 fRf"fgf[]f< fpf[]f<,ì [f[]fbfgf[]fN] fAfCfRf" ,đf_fuf<fNfŠfbfN,µ,Ü,·[]B
- 2 [fT[]f[]f[]f] f^fu,Á[]A[fŠf,[]fg fAfNfZfX fT[]f[]f[]f] ,đfNfŠfbfN,µ[]AŽÿ,É [fvf[]pfefB] ,đfNfŠfbfN,µ,Ü,·[]B
- 3 [fŠf,[]fg fAfNfZfX fZfbfgfAfbfv] f_fCfAf[]fO f{fbfNfX,ì [f[]fbfgf[]fN] ,đfNfŠfbfN,µ,Ü,·[]B
- 4 [f[]fbfgf[]fN,ì[]-.] f_fCfAf[]fO f{fbfNfX,ì [f_fCf,·f< fAfEfg fvf[]fgfRf<] ,Á[]ARAS fNf
%ofCfAf"fg,Æ,µ,Ä,Ü,·,©,ìfRf"fsf...[]f^,Éf_fCf,·f< fAfEfg,·,é,Æ,«,ÉŽg,æfvf[]fgfRf<,đ'í'đ,µ,Ü,·[]B[f_fCf,·f<
fAfEfg fvf[]fgfRf<] ,Áfvf[]fgfRf<,đ'í'đ,µ,È,ç[]è[]#,í[]ACEä,Áf_fCf,·f< fAfEfg—p,É"đ"b' fGf"fgfŠ,đ[]
[]-.,.é,Æ,«,É[]A,»ìfvf[]fgfRf<,đ'í'đ,«,Ü,¹,ñ[]B
f_fCf,·f< fAfEfg—p,É[]-.,³,è,Ä,ç,é[]f[]fg,³,È,ç[]è[]#[]A[f_fCf,·f< fAfEfg fvf[]fgfRf<] ,í'W[]F·\Žì,³,è[]A—~
p,Á,«,Ü,¹,ñ[]B
- 5 [fT[]fo[][,ìÿ'è] ,Á[]ARAS fRf"fsf...[]f^,æŠf,[]fg fNf%ofCfAf"fg,©,ç,ì'...[]MfR[]f<,ÉŽg,æ LAN
fvf[]fgfRf<,đ'í'đ,µ,Ü,·[]B
'...[]M—p,É[]-.,³,è,Ä,ç,é[]f[]fg,³,È,ç[]è[]#,í[]A[fT[]fo[][,ìÿ'è] ,í—~—p,Á,«,Ü,¹,ñ[]B
- 6 ^Á[]+%o» ,ìf[]fvf[]f" ,đ'í'đ,µ,Ü,·[]BŠef[]fvf[]f" ,ì'Ó-; ,ìŽÿ,ì,Æ,·,è,Ä,·[]B
· [fNfŠfA fef[]f[]f[]g,đŠÜ,þ"Ç'Ó,ì"[]F[]Ø,đ<-%oÁ,·,é] ,đ'í'đ,·,é,Æ[]AfNf%ofCfAf"fg,©,ç—v[] ,³,è,½,ç
,,é,ì"[]F[]Ø (MS-CHAP[]ASPAP[]APAP) ,đŽg,Á,½[]Ú±,Á,à<-%oÁ,µ,Ü,·[]B,±,ìf[]fvf[]f" ,í[]ARAS fNf
%ofCfAf"fg,ìŽì—þ,³,è,½—ì,È[]è[]#,É·Ö—~ ,Á,·[]B
· [^Á[]+%o» ,³,è,½"[]F[]Ø,³·K—v] ,đ'í'đ,·,é,Æ[]APAP ,đ[]œ,ç,Ä[]AfNf%ofCfAf"fg,©,ç—v[] ,³,è,½,ç
,,é,ì"[]F[]Ø,đŽg,Á,½[]Ú±,Á,à<-%oÁ,µ,Ü,·[]B
· [Microsoft ^Á[]+%o»"[]F[]Ø,³·K—v] ,đ'í'đ,·,é,Æ[]AMS-CHAP ,ì"[]F[]Ø,đŽg,Á,½[]Ú±,ì,ÿ,đ<-%oÁ,µ,Ü,·[]B
· [ff[]f^,ì^Á[]+%o» ,³·K—v] f^f[]fbfN f{fbfNfX,đf[]f" ,É,·,é,Æ[]A%oñü,ð%oi,µ,Á'—
[]M,³,è,é,·,x,Ä,ìf[]f^,³^Á[]+%o» ,³,è,Ü,·[]B
- 7 ·"—[]"í,È·;[]" ,ìfŠf"fn,đ"—[]"í,È 1 ,Á,ì "'©" ,Éç<[]#,·,é,É,í[]A{f}f< fŠf"fn,đŽg,æ] f^f[]fbfN
f{fbfNfX,đf[]f" ,É,µ,Ü,·[]B,±,ì·;[]#fŠf"fn,É,æ,è[]A'Ñ^æ·[] ,ð[]L,·,é,±
,Æ,³,Á,«,Ü,·[]Bf}f< fŠf"fn,³[]Á,à^è"É"í,ÉŽg,ì,é,é,ì,í[]AISDN f^ffff[]f<,ìç<[]#,Á,·,³[]A·;[]" ,ìf,fff[]
,ðç<[]#,³,¹,½,è[]Af,fff[] ,Æ ISDN %oñü,ðç<[]#,³,¹,½,è,Ä,«,Ü,·[]B
,±,ìf^f[]fbfN f{fbfNfX,í[]AWindows NT Server fRf"fsf...[]f^,É,ì,ÿ"K—p,³,è,Ü,·[]B
- 8 fvf[]fgfRf<,ì'í'đ,ð[]—¹,µ,½,ç[]A[OK] ,đfNfŠfbfN,µ,Ü,·[]B
- 9 [fŠf,[]fg fAfNfZfX fZfbfgfAfbfv] f_fCfAf[]fO f{fbfNfX,ì [^±[]s] ,đfNfŠfbfN,µ[]AfŠf,[]fg fAfNfZfX
fZfbfgfAfbfv,ð[]—¹,µ,Ü,·[]B

'[] ·ìX"à—e,ð—Lçø,É,·,é,É,í[]AfRf"fsf...[]f^,ð[]Ä<N" @,µ,È,·,é,ì,È,è,Ü,¹,ñ[]B

ŠÖ~A[]€-Ü

TCP/IP ,đŽg,æ,æ,É RAS fT[]fo[][,đ[]-.,.é

IPX ,đŽg,æ,æ,É RAS fT[]fo[][,đ[]-.,.é

NetBEUI ,đŽg,æ,æ,É RAS fT[]fo[][,đ[]-.,.é

RAS fNf%ofCfAf"fg,³Žg,æ-¼'0%ođç^,đ[]-.,.é

RAS fgf"fgfŠ.ÉŽg.Ɂfvf[]fgfRf<.đ'!.Ô

NetBEUI ,đŽg,æ,æ,É RAS fT[fó[.đ\Ñ-,.,é

NetBEUI ,íAÑ-ÑK-í,È LAN ,Á NetBIOS fAfvfŠfP[fVf#f“ ,đŽÀÑs,.,éêÑ‡,ÉAÑÁ,à—
D,é,½fpftfH[f]f“fX,đ”Šö,µ,Ü,·ÑB,Ü,½ÑANetBEUI ,đÑíœ,µ,Ä,àATCP/IP ,Ü,½,í IPX ,Æ<æ,É RAS ,đŽg—
p,Á,«,Ü,·ÑBfZfbfgfAfbfv,ì,Æ,«,É,íANetBEUI fNf%ofCfAf“fg,aflfbfgf[fN’S’ì,ÉfAfnfZfX,Á,«,é,æ,æ,
.É,.,é,©A,Ü,½,í RAS fRf“fsf...[f^,É,µ,©fAfnfZfX,Á,«,È,ç,æ,æ,É,.,é,©,đŽw’è,Á,«,Ü,·ÑB

NetBEUI ,đflfbfgf[fN’Ú’±,ÉŽg,æ,æ,É RAS fT[fó[.đ\Ñ-,.,é,É,í

- 1 fRf“fgf[f< fpflf<,ì [flfbfgf[fN] fAfcfRf“,đf_fuf<fNfŠfbfN,µ,Ü,·ÑB
 - 2 [fT[frfX] f^fu,ÁA[fŠf,.[fg fAfnfZfX fT[frfX] ,đfNfŠfbfN,µAŽŸ,É [fvfÑfpfefB] ,đfNfŠfbfN,µ,Ü,·ÑB
 - 3 [fŠf,.[fg fAfnfZfX fZfbfgfAfbfv] f_fCfAfÑfO f{fbfNfX,ì [flfbfgf[fN] ,đfNfŠfbfN,µ,Ü,·ÑB
 - 4 [fT[fó[.ìÑ’è] ,ì [NetBEUI] f^fFfbfN f{fbfNfX,đflf“,É,µA[ÑÑ-] ,đfNfŠfbfN,µ,Ü,·ÑB
 - 5 [RAS fT[fó[NetBEUI ,ìÑÑ-] f_fCfAfÑfO f{fbfNfX,ÁANetBEUI fNf
%ofCfAf“fg,Éflfbfgf[fN’S’ì,Ö,ìfAfnfZfX,đ<-%oÁ,.,é,©A,Ü,½,í RAS fRf“fsf...[f^,Ö,ìfAfnfZfX,ì,Ý,đ<-
%oÁ,.,é,©,đ’ì’đ,µAŽŸ,É [OK] ,đfNfŠfbfN,µ,Ü,·ÑB
 - 6 [flfbfgf[fN,ìÑÑ-] f_fCfAfÑfO f{fbfNfX,ì [OK] ,đfNfŠfbfN,µ,Ü,·ÑB
 - 7 [fŠf,.[fg fAfnfZfX fZfbfgfAfbfv] f_fCfAfÑfO f{fbfNfX,ÁAfí[fg,ì,».,ì’¼,ìflfvfVf#f“ ,đ\Ñ-,µAŽŸ,É [’±[s]
,đfNfŠfbfN,µ,Ü,·ÑB
- ’Ñ •íÑX“à—e,đ—LCEø,É,.,é,É,íAfrf“fsf...[f^,đÄ<N“©,µ,È,_,é,ì,È,è,Ü,¹,ñÑB

TCP/IP ,đŽg,æ,æ,É RAS fT[fO[L,đN[-,.,é

RAS Ů'±,ĀŽg,æ,æ,É TCP/IP ,ìŸ'è,đN[-,Ü,½,ÍĀN[-,.,é,É,ÍĀfRf"fgf[f< fpf[f<,ì [f]fbfgf[fN] ,đŽg,ç,Ü,·B

RAS fT[fO[L,Ā,ÍĀTCP/IP ,ÉSÖ,µ,Ā 2 ,Ā,ìN[-<Ā,è,è,Ü,·B

- LAN Ā,ìfT[fO[L,Ā,µ,Ā<@",.,é,½,β,ìŠî-{}N[-,Ā IP fAfhfçfX,ìŸ'èB[->•û-@,É,Ā,ç,Ā,ÍĀTCP/IP ,ìf]f"fofçf" fwf<fv,đŽQĀ,µ,Ā,,¾,¾,çB
- RAS fNf%ofçfAf"fg,É IP fAfhfçfX,đ'ñ<Ÿ,.,é,½,β,ìN[-<B,±,±,Ā,ÍĀRAS fNf%ofçfAf"fg,É IP fAfhfçfX,đ'ñ<Ÿ,.,é,½,β,ì N[->•û-@,đĀ-¾,µ,Ü,·B

TCP/IP ,đf]fbfgf[fNŮ'±,ÉŽg,æ,æ,É RAS fT[fO[L,đN[-,.,é,É,Í

- 1 fRf"fgf[f< fpf[f<,ì [f]fbfgf[fN] fAfçRf",đf_fuf<fNfŠfbfN,µ,Ü,·B
- 2 [fT[fRfX] f^fu,ĀĀA[Šf,[]fg fAfNfZfX fT[fRfX] ,đfNfŠfbfN,µĀAŽŸ,É [fvf[]pfefB] ,đfNfŠfbfN,µ,Ü,·B
- 3 [Šf,[]fg fAfNfZfX fzfbfgfAfbfv] f_fçfAf[]fo f{fbfNfX,ì [f]fbfgf[fN] ,đfNfŠfbfN,µ,Ü,·B
- 4 [fT[fO[L,ìŸ'è] ,ì [TCP/IP] f^fFfbfN f{fbfNfX,đf]f",É,µĀAŽŸ,É [N[-] ,đfNfŠfbfN,µ,Ü,·B
- 5 [RAS fT[fO[L TCP/IP ,ìN[-] f_fçfAf[]fo f{fbfNfX,ĀĀTCP/IP fNf %ofçfAf"fg,Éf]fbfgf[fN'S'ì,Ö,ìfAfNfZfX,đ<-%Ā,.,é,©Ā,Ü,½,Í RAS fRf"fsf...[]f^,Ö,ìfAfNfZfX,ì,Ÿ,đ<-%Ā,.,é,©,đ'ì'đ,µĀAŽŸ,É [OK] ,đfNfŠfbfN,µ,Ü,·B
- 6 fŠf,[]fg fNf%ofçfAf"fg,É—^,ì,é IP fAfhfçfX,đ"®"ìfzfXfgN[-fvf[]fgRf< (DHCP) fT[fO[L,©,çŽæ"¾,.,éĀĀ,ĀĀfŠf,[]fg TCP/IP fNf%ofçfAf"fg,ìfAfhfçfXŠ,,è"—,Ā,É DHCP ,đŽg,æ] ,đfNfŠfbfN,µ,Ü,·B
DHCP fT[fO[L,è—~p,Ā,«.,É,çĀĀ,ĀĀfAfhfçfX fv[]f<,đŽg,æ] ,đfNfŠfbfN,µĀAŽŸ,ÉĀRAS fT[fO[L,èfNf%ofçfAf"fg,ÉS,,è"—,Ā,é IP fAfhfçfX,ì"í"í,đŽw'è,µ,Ü,·BIP fAfhfçfX,ì"í"í,ÍĀRAS fT[fO[L,è"®,.,éfTfuf]fbfg,Ā—LĀø,É"í"í,Ā,È,_,è,ì,È,è,Ü,¹,ñB
- 7 RAS fNf%ofçfAf"fg—p,ÉS,,è"—,Ā,ç,è,Ā,ç,é"í"í,ì IP fAfhfçfX,đ [ŠŽnfAfhfçfX] f{fbfNfX,Ā [—fAfhfçfX] f{fbfNfX,É"ü—í,µ,Ü,·BĀ,È,,Ā,è 2 ,Ā,ì IP fAfhfçfX,đŠ,,è"—,Ā,È,_,è,ì,È,è,Ü,¹,ñ (Šf,[]fg fNf %ofçfAf"fg,É 1 ,Ā,Ā RAS fT[fO[L,ìf]fbfgf[fN fAf_fv^,É 1 ,Ā)B
IP fAfhfçfX,ĀĀ"¾špfsfŠf]h,Ā<æ[]ø,ç,è,½ 10 [][] ,ì"Žš,Ā"ü—í,µ,Ā,,¾,¾,ç (—á: 110.11.0.0)B,±,± ,ÉŽw'è,.,é,ì,Āf]fbfgf[fNŠç—[]Ž,èŠ,,è"—,Ā,Ü,·B
- 8 IP fAfhfçfX,ì"í"í,©,çĀš,.,éfAfhfçfX,đ'è< ,.,é,É,ÍĀAŽŸ,ì,æ,æ,É [Š,,è"—,ĀĀš"í"í] f{fbfNfX,Ā,» ,ì[]Ā,ìfRf"fgf[f<,đŽg,ç,Ü,·B
▪ Āš"í"í,ĀĀ%,Ā IP fAfhfçfX,đ [ĀšŠ]Žn] f{fbfNfX,É"ü—í,µĀĀĀĀ,ìfAfhfçfX,đ [Āš[]—¹] f{fbfNfX,É"ü—í,µ,Ü,·BŽŸ,ÉĀ[C%Ā] ,đfNfŠfbfN,µ,Ü,·B,Ü,©,É,àĀš,.,é"í"í,è ,è,Ā"Ā",Ā"€[] ,đç,è•Ö,µ,Ü,·B
▪ P^è,ì IP fAfhfçfX,đĀš,.,é,É,ÍĀ[ĀšŠ]Žn] f{fbfNfX,Ā [Āš[]—¹] f{fbfNfX,É"ü—í,µĀAŽŸ,É [C%Ā] ,đfNfŠfbfN,µ,Ü,·B
▪ Āš"í"í,©,ç^è• ,ì IP fAfhfçfX"í"í,đ[]Ā,.,é,É,Ā[Š,,è"—,ĀĀš"í"í] f{fbfNfX,Ā,» ,ì"í"í,đ'ì'đ,µĀAŽŸ,É [ĀĀ] ,đfNfŠfbfN,µ,Ü,·B
- 9 •K—v,É%ž,Ā,ĀĀfŠf,[]fg fNf%ofçfAf"fg,ÉŽ—'O,É'è,β,½ IP fAfhfçfX,Ā,ì—v<,đ<-%Ā,.,é] f^fFfbfN f{fbfNfX,đf]f",É,µ,Ü,·B
- 10 [OK] ,đfNfŠfbfN,µ,Ü,·B
- 11 [f]fbfgf[fN,ìN[-] f_fçfAf[]fo f{fbfNfX,ì [OK] ,đfNfŠfbfN,µ,Ü,·B
- 12 [Šf,[]fg fAfNfZfX fzfbfgfAfbfv] f_fçfAf[]fo f{fbfNfX,ĀĀf[]fg,ì,» ,ì"¾,ìf]fvf]f",àN[-,µĀAŽŸ,É [±[]s] ,đfNfŠfbfN,µ,Ü,·B

'[] •ĀX"à—e,đ—LĀø,È,.,é,É,ÍĀfRf"fsf...[]f^,đĀ<N"®,µ,È,_,è,ì,È,è,Ü,¹,ñB

RAS fNf%oCfAf“fg,ì-¼‘O%oðCE^,ð\□-.,.é

RAS fNf%oCfAf“fg,ì-¼‘O%oðCE^,í□A—~—p%oÂ“\,Èflfbfgf□□fN fT□[frfX,Æ RAS fT□[fo□[.ì□□-.,ÉŠì,Ä,ç,Ä□s,í,é,Ü,·□B

- RAS fT□[fo□[.èflfbfgf□□fN□ä,ì WINS fT□[fo□[,Æ DNS fT□[fo□[,ðŽg,æ,æ,æ,É□□-.,³,é,Ä,ç,é□é□#,í□ARAS fNf%oCfAf“fg,à“~.,¶ WINS fT□[fo□[,Æ DNS fT□[fo□[,ðŽg,ç,Ü,·□B
- RAS fT□[fo□[.É•i□“,ìflfbfgf□□fN fAf_fvf^ f□□[fh,èŽæ,è•t,_,ç,é,Ä,ç,é□é□#AfNf%oCfAf“fg,í□AWINS,Æ DNS ,è□□-.,³,é,Ä,ç,é□Ä□%o,ìflfbfgf□□fN□ä,ì WINS fT□[fo□[,ðŽg,ç,Ü,·□B

fNf%oCfAf“fg,Ä,í□A[“d~b’ ,ìfGf“fgfŠ,ì•Ö□W] f_fCfAf□fO f{fbfNfX,ì [fT□[fo□[] f^fu,Ä [TCP/IP ,ì□Ý’è] ,ðfNfŠfbfN,μ,Ä□□-.,.é,±,Æ,É,æ,è□AfGf“fgfŠ,²,Æ,É WINS fT□[fo□[,Æ DNS fT□[fo□[,ìfAfhfçfX,ðŽw’è,.,é,±,Æ,à,Ä,«.,Ü,·□B

IP fAfhfçfX,è•í□X,³,é,é,±,Æ,ì,È,ç□-<K-í,Èflfbfgf□□fN,Ä,í□ARAS fNf%oCfAf“fg,ì-¼‘O%oðCE^,É HOST ftf@fCf<,Æ LMHOSTS ftf@fCf<,ðŽg—p,Ä,«,Ü,·□Bf□□[ffj< fhf%oCfu□ä,ì,±,é,ç,ìftf@fCf<,ðŽg,æ,Æ□AWINS fT□[fo□[.É-¼‘O%oðCE^—v<□,ð“`—.,.éŽžŠÖ,â□Af,fff€,ð%oî,μ,½%ož“š,ð‘Ö,Ä,½,ß,ìŽžŠÖ,ð□ß-ñ,Ä,«,Ü,·□B

- ’□ •W□€,ìfuf□□[fhfLfffXfg-¼‘O%oðCE^,í□ARAS ,ð%oî,μ,Ä,í“@□ì,μ,Ü,¹,ñ□Bft□[fU□[.í□AWINS ,â LMHOSTS ftf@fCf<,É,Ç,ìžè’i,Ä-¼‘O%oðCE^,ð□s,æ,©□A,Ü,½,í IP fAfhfçfX,ðŽg,í,È,_,è,î,È,è,Ü,¹,ñ□B

RAS fGf“fgfŠ,ÉŽg,xfvf□fgfRf<,đ‘I,Ô

f_fCf,,f<fAfbfv flfbfgf□□[fN,lfNf%ofCfAf“fg,Á,Í□AfŠf,□[fg flfbfgf□□[fN,ì-¼‘O,Æ“d~b”Ô□t,đ“ü—
Í,μ□A,»,ì□Ý’è,đ•ÚŽç,Á,«,Ü,·□BfNf%ofCfAf“fg,Í□Af_fCf,,f<fAfbfv flfbfgf□□[fN,đŽg,Á,ÄfŠf,□[fg
flfbfgf□□[fN,Æ□Ú’±,μ,½,è□A□Ø’f,μ,½,è,Á,«,Ü,·□Bf†□[fU□[,Í□Af_fCf,,f<□æ,lfT□[fo□[,ìŽí—p
(PPP□ASLIP□A,Ü,½,Í Microsoft RAS) ,É%ž,¶,Ä□A‘Á’è,ì“d~b’ fGf“fgfŠ,ÉŽg,xfIbfgf□□[fN
fvf□fgfRf<,đ‘I’đ,Á,«,Ü,·□B

RAS ,ì“d~b’ fGf“fgfŠ,ÉŽg,xfvf□fgfRf<,đ‘I,Ô,É,Í

- 1 f_fCf,,f<fAfbfv flfbfgf□□[fN,Ä□A“d~b’ fGf“fgfŠ,đ‘I’đ,μ□AZÿ,É [,»,ì‘¼] ,đfNfŠfbfN,μ,Ü,·□B
- 2 [fGf“fgfŠ,Æf,fff€,ìfvf□fpfefB,ì•Ò□W] ,Ü,½,Í [fGf“fgfŠ,Æf,fff€,ìfvf□fpfefB,ì•i□»] ,đfNfŠfbfN,μ,Ü,·□B
- 3 [fT□[fo□[] f^fu,Á□Af_fCf,,f<fAfbfv fT□[fo□[,ìŽí—p,đ‘I’đ,μ,Ü,·□BfT□[fo□[,ìŽí—p,ª,í,©,ç,È,¢□ê□#,Í□A[PPP]
,đ‘I’đ,μ,Ü,·□B
- 4 Žg—p,·,élfbfgf□□[fN fvf□fgfRf<,đ‘I’đ,μ,Ü,·□BSLIP fT□[fo□[,Ü,½,Í PPP
fT□[fo□[,Éf_fCf,,f<,·,é□ê□#,Í□A[TCP/IP] f`fFfbfN f{fbfNfX,đfI’f“,É,μ□AZÿ,É [TCP/IP ,ì□Ý’è]
,đfNfŠfbfN,μ,Ä□ATCP/IP ,ì□Ý’è,đ□□—,·,é,±,Æ,ª,Á,«,Ü,·□B

IPX ,đŽg,æ,æ,É RAS fT[fö,đŃ-.,é

RAS Ú±,ÁŽg,æ,æ,É IPX ,ìŸ'è,đŃ-.,Ÿ,¼,íÄŃ-.,.,é,É.íAfrf"fgf[f< fpflf,ì lfbbfgf[fN] ,đŽg,ç,Ü,·B

IPX ,đflbbfgf[fNÚ±,ÉŽg,æ,æ,É RAS fT[fö,đŃ-.,.,é,É,í

- 1 frf"fgf[f< fpflf,ì lfbbfgf[fN] fAfrf",đf_fuf<fnfšbfN,μ,Ü,·B
- 2 [fT[frfX] f^fu,ÄA[fšf,fg fAfnfzfx fT[frfX] ,đfnfšbfN,μAZÿ,É [fvf]pfefB] ,đfnfšbfN,μ,Ü,·B
- 3 [fšf,fg fAfnfzfx fzbbfgfAfbfv] f_CfAfO f{fbfnfx,ì lfbbfgf[fN] ,đfnfšbfN,μ,Ü,·B
- 4 [fT[fö,ìŸ'è] ,ì [IPX] f`fFfbfn f{fbfnfx,đflf",É,μ (IPX ,æf"fxfg[f<,³,è,Ä,ç,ééè,íflf",É,É,Ä,Ä,ç,Ü,.)AZÿ,É [Ń-] ,đfnfšbfN,μ,Ü,·B
- 5 [RAS fT[fö [IPX ,ìŃ-] f_CfAfO f{fbfnfx,ÄAIPX fnf%ofCfAf"fg,Éflbbfgf[fN"š'ì,Ö,lfAfnfzfx,đ<-%Ä,.,é,©A,Ü,¼,í RAS frf"fsf...[f^,Ö,lfAfnfzfx,ì,Ÿ,đ<-%Ä,.,é,©,đ'ì,μAZÿ,ÉAIPX flbbfgf[fN"Ōt,đš,,è"-,Ä,é•ù-@,đ'ì,Ń,Ü,·Bš,,è"-,Ä•ù-@,ìžw'è,É,íAZÿ,ífvfVf#f" f{f^f",Æf`fFfbfn f{fbfnfx,đŽg,ç,Ü,·B
- [Ž©"@"I,Éflbbfgf[fN"Ōt,đš,,è"-,Ä,é]BWindows NT RAS fltfgeFfA,íANetWare RIP (Router Information Protocol F<[fefBf"FOi•nfvf]fgfRf<) ,đŽg,Ä,ÄAIPX flbbfgf[fN"à,ÁŽg—p,³,è,Ä,ç,É,ç IPX flbbfgf[fN"Ōt,đ²,x,Ü,·BRAS fT[fö,íA,»,)flbbfgf[fN"Ōt,đšf,fg fnf%ofCfAf"fg,Éš,,è"-,Ä,Ü,·B
- [flbbfgf[fN"Ōt,ìš,,è"-,Ä] (žè"®š,,è"-,Ä)Bžè"®,Äš,,è"-,Ä,é•ù-@,íAflfLf... fšfefB,àšÁŽ<,¼,β,ÉAflbbfgf[fN"Ōt,ìš,,è"-,Ä,đx,©,šÆä,.,ééè,É•Ö~ ,Ä,·B
flbbfgf[fN"Ōt,đžè"®,Äš,,è"-,Ä,é•ù-@,đ'ì,ñ,¼éè,íA[š]žn"Ōt] f{fbfnfx,ÉÄ%
,)flbbfgf[fN"Ōt,đ"ü—í,μ,Ü,·BRAS ,É,æ,Ä,ÄAZ©"@"I,É—p%Ä"\\,Éf]
[fg,ì"Ōt,²²,x,ç,éA[—¹"Ōt] ,Éflbbfgf[fN"Ōt,²} "ü,³,è,Ü,·B
- [.,x,Ä,ì IPX fnf%ofCfAf"fg,É"" ,flbbfgf[fN"Ōt,đš,,è"-,Ä,é]B,±,lf`fFfbfn f{fbfnfx,đflf",É,.,é,ÆAZ©"®š,,è"-,Ä•ù-@,Æžè"®š,,è"-,Ä•ù-@,ì,ç,ç,đŽg,Ä,Ä,ç,ééè,Ä,àA,.,x,Ä,ì IPX fnf%ofCfAf"fg,É"" ,flbbfgf[fN"Ōt,đš,,è"-,Ä,é,±,Æ,²,Ä,«,Ü,·B
- 6 RAS fT[fö,²—^,ì,éfm[fh"Ōt,Ä,ì,É,ÄŽ©²,ÄCE^,¼,½ IPX fm[fh"Ōt,đ—v<,.,é,±,Æ,đšf,fg fnf%ofCfAf"fg,É<-%Ä,.,é,É,íA[fšf,fg fnf%ofCfAf"fg,É IPX fm[fh"Ōt,Ä,ìÚ±,đ<-%Ä,.,é] f`fFfbfn f{fbfnfx,đflf",É,μ,Ü,·B
- 7 [OK] ,đfnfšbfN,μ,Ü,·B
- 8 [flbbfgf[fN,ìŃ-] f_CfAfO f{fbfnfx,ì [OK] ,đfnfšbfN,μ,Ü,·B
- 9 [fšf,fg fAfnfzfx fzbbfgfAfbfv] f_CfAfO f{fbfnfx,ÄAfl[fg,ì,».)¼,ífvfVf#f",đŃ-.,μAZÿ,É [±s] ,đfnfšbfN,μ,Ü,·B
- '□ •íX"à—e,đ—LCEø,É,.,é,É,íAfrf"fsf...[f^,đÄ<N"® ,μ,È,.,é,ì,È,è,Ü,¹,ñB
fšf,fg fnf%ofCfAf"fg,²²•²,Äfm[fh"Ōt,đ'ì,đ,Ä,«,é,æ,x,É,.,é,ÆAflbbfgf[fN,ÉfZfLf... fšfefB,ä,ì-â'è,ì"ñ,.,é%Ä"«,,É,è,Ü,·Bž©²,Äfm[fh"Ōt,đ'ì,Ö,±,Æ,²,Ä,«,é,ÆAfnf%ofCfAf"fg,²²A'È'OfT[fö,ÉÚ±,μ,Ä,ç,¼•É,lfnf%ofCfAf"fg,É,È,è,.,Ü,μA,»,lfnf%ofCfAf"fg,æfAfnfzfx,μ,Ä,ç,¼flbbfgf[fNž¹,ÉfAfnfzfx,.,é,±,Æ,à,Ä,«,é,©,ç,Ä,·B

f[]fj]f< flfbfgf[]fN,lfuf%ofEfU,É•Ž!,³,ê,é,æ,æ,ÉfXf^f“fhfAf[]f“,lfŠf,[]fg fT[]fo[][,đ[]\[]-,.,é

,½,Æ,!,[]ARAS fT[]fo[][,đŽ©‘í,É‘u,«A[]E[]ê,lfRf“fsf...

[]f^,©,çŽ©‘í,lfT[]fo[][,Éf_fCf,,f<fCf“.,.é[]ê[]‡,[]AfŠf,[]fg fNf%ofCfAf“fg,lfuf%ofEfU

fŠfXfg,ÉŽ©‘í,lfT[]fo[][,ì-¼‘O,ª•Ž!,³,ê,é,æ,æ,É[]\[]-,μ,È,̄,ê,î,È,è,Û,¹,ñ[]B

f[]fj]f< flfbfgf[]fN,lfuf%ofEfU,É•Ž!,³,ê,é,æ,æ,ÉfŠf,[]fg,ì RAS fT[]fo[][,đ[]\[]-,.,é,É,í

1 Ž©‘í,ì RAS fT[]fo[][,Á[]AfRf“fgf[]f< fpf]f<,ì [flfbfgf[]fN] fAfCfRf“,đf_fuf<fNfŠfbfN,μ,Û,·[]B

2 [Ž˘•É] f^fu,ì [•ì[]X] ,đfNfŠfbfN,μ,Û,·[]B

3 [Ž˘•É,ì•ì[]X] f_fCfAf[]fO f{fbfNfX,Á[]A[]V,μ,çfhf[]fCf“-¼,Û,½,Í[]f[]fNfOf<[]fv-¼,đ“ü—í,μ,Û,·[]B,±,±,É“ü—í,.,é-¼‘O,[]Af_fCf,,f<fCf“,.,éNf%ofCfAf“fg,lfhf[]fCf“-¼,Û,½,Í[]f[]fNfOf<[]fv-¼,Æ^ê‘v,μ,Ä,ç,È,̄,ê,î,È,è,Û,¹,ñ[]BŽŸ,É [OK] ,đfNfŠfbfN,μ,Û,·[]B

4 [fAf_fvf^] f^fu,ì [‘Ç%oÁ] ,đfNfŠfbfN,μ,Û,·[]B

5 [flfbfgf[]fN fAf_fvf^] f{fbfNfX,Á[]A[MS Loopback fAf_fvf^] ,đ‘í‘đ,μ[]AŽŸ,É [OK] ,đfNfŠfbfN,μ,Û,·[]B

6 [MS Loopback fAf_fvf^] f[]f[]fh fZfbfgfAfbfv] f_fCfAf[]fO f{fbfNfX,ì [OK] ,đfNfŠfbfN,μ[]AWindows NT,ì“z•zfffBfXfN,ìfpfX,đ“ü—í,μ[]AŽŸ,É [‘±[]s] ,đfNfŠfbfN,μ,Û,·[]B

Šù‘è,lfTf[]E[]f€ f^fCfv,đ•ì[]X,μ,È,ç,Ä,,¾,³,ç[]BRAS ,ÍŠù‘è,ì[]Y‘è,Á[]³[]í,É<@“\,μ,Û,·[]B

7 [flfbfgf[]fN] f_fCfAf[]fO f{fbfNfX,ì [OK] ,đfNfŠfbfN,μ[]AfRf“fsf...[]f^,đ[]Ä<N“@,μ,Û,·[]B

‘[] Ä<N“@,μ,½,ç[]A,½,Æ,lfRf“fsf...[]f^,ªflfbfgf[]fN,É[]Ú‘±,³,ê,Ä,ç

,È,ç[]ê[]‡,Ä,à[]Af]fbfgf[]fN‘S‘ì,Ö,lfAfNfZfX,đ<-%oÁ,.,é,æ,æ,ÉfŠf,[]fg RAS fT[]fo[][,đ[]\[]-,μ,Ä,-

,¾,³,ç[]B[]Ú[]x,É,Ä,ç,Ä,Í[]A[]u_LAN_fvf[]fgfRf<,đŽg,æ,æ,É RAS ,đ[]\[]-,.,é[]v,đŽQ[]Æ,μ,Ä,,¾,³,ç[]B

NetBIOS IP ,Æ IPX —p,É,Û,©,ìf□□[fj□□,ìf_fCf,,f<fAfbfv fT□[fo□□[,ð□□—,·,é

,Û,©,ìf□□[fj□□,ìf_fCf,,f<fAfbfv fT□[fo□□[,Éf_fCf,,f<fCf“ ,·,é Windows NT fNf%ofCfAf“fg,ª□AIP ,Û,½,í IPX ,ðŽg,Á,Ä NetBIOS ,ìŽ‘CE¹,ÉfAfNfZfX,μ,È,¯,ê,î,È,ç,È,ç,±,Æ,ª, ,è,Û,·□B,±,ì,æ,κ,È□ê□±□Af_fCf,,f<fAfbfv fT□[fo□□[,í□ANetBIOS ,ìfuf□□[fhfLfffXfg,ð“]’—,Á,«,é,æ,κ,É□□—,³,ê,Ä,ç,È,¯,ê,î,È,è,Û,¹,ñ□B,½,¾,μ□ALAN □ã,Á NetBIOS ,ìfgf%oftfBfbfN,ª‘½,ç□ê□±,É□Afuf□□[fhfLfffXfg,ª“□¶,·,é,Æ□ARAS □Ú‘±,ð %oi,μ,½fìfbfgf□□[fN fAfNfZfX,ìfpftfH□[f}f“fX,ª‘á%oº,·,é,±,Æ,ª, ,è,Û,·□BNetBIOS ,ìfuf□□[fhfLfffXfg,ð“]’— ,Á,«,é,æ,κ,ÉfT□[fo□□[,ð□□—,·,é•û-@,É,Á,ç,Ä,í□A□uNwlnkRip fpf%of□□[f^□v,ðŽQ□Æ,μ,Ä,¾,³,ç□B TCP/IP fìfbfgf□□[fN,ìfpftfH□[f}f“fX,ðCEü□ã,³,¹,é,É,í□AWindows NT fNf %ofCfAf“fg,©,ç,Û,©,ìf□□[fj□□,ìfT□[fo□□[,Éf_fCf,,f<fCf“ ,·,é,Æ,«,É□AWINS fT□[fo□□[,Û,½,ìfvf□fLfv (“ã—□) fG□[fWfFf“fg,ðŽg,ç,Û,·□B,½,¾,μ□AfT□[fo□□[,ª LAN □ã,Á Windows NT Server ,ì WINS fT□[fo□□[,Û,½,ìfvf□fLfv fG□[fWfFf“fg,ÉfAfNfZfX,Á,«,é,æ,κ,É□□—,³,ê,Ä,ç,é□ê□±,ÉCEÀ,è,Û,·□B

fŠf, [fg fAfNfZfX, ì<-‰Â, ð•t—^, ·, é

RAS , ðfT [fo [, ÉfCf“fXfg [f<, µ, ½Œä, Å AfT [fU [, ÉfŠf, [fg fAfNfZfX, ì<-‰Â, ð—
^, |, È, ^, é, î, È, è, Û, ¹, ñ BfŠf, [fg fAfNfZfX, ì<-‰Â, ¢, È, ^, é, î Af_fCf,, f<fAfbfv flfbfgf [fN, ìfNf%ofCfAf“fg f\
ftfgfEfFfA, ¢fRf“fsf... [f^, ÉfCf“fXfg [f<, ³, é, Ä, ç, Ä, à AfT [fU [, í RAS fT [fo [, ÉÚ’ ±, Å, <, Û, ¹, ñ B

fŠf, [fg fAfNfZfX, ì<-‰Â, ðft [fU [, É•t—^, ·, é, É, í

- 1 [fXf^ [fg] f [fj... [, ©, ç [ŠÇ— [fc [f< (<æ’É)] ftfHf<f_ , ì [fŠf, [fg fAfNfZfXŠÇ— [, ðfNfŠfbfN, µ, Ä AŠÇ—
 [ft [[fefBfŠfefB, ð<N” @, µ, Û, · B
- 2 fŠf, [fg fAfNfZfX, ì<-‰Â, ðŸ’è, ·, éfT [fo [, Û, ½, íhf [fCf“ , ð’í’ð, µ, Û, · B
- 3 [ft [fU [] f [fj... [, ì [fŠf, [fg fAfNfZfX, ì<-‰Â] , ðfNfŠfbfN, µ, Û, · B
 [fŠf, [fg fAfNfZfX, ì<-‰Â] f_fCfAf [fo f {fbfNfX, ¢•\Ž, ³, é, Û, · B
- 4 ^È~ , ì’€ [i•û-@ , É, Ä, ç, Ä, í A [fwf<fv] , ðfNfŠfbfN, µ, Ä A [fwf<fv, ì à-¾, ðŽQ [Æ, µ, Ä, , ¾, ³, ç B
 ‘ [Guest fAfjEf“fg, ÉfŠf, [fg fAfNfZfX, ì<-‰Â, ð—^ , |, é, Æ A•s [³, ÈfAfNfZfX, ¢ [s, í, é, é‰‰Â”\
 [<, ¢ , é, ì, Å’ [^Ó, µ, Ä, , ¾, ³, ç B, ±, é, ð [s, ¢ [é [ç, í A Guest fAfjEf“fg, É•K, , fpfXf [[fh, ðŠ,, è“- , Ä, Ä, -
 , ¾, ³, ç B

ISDN f fCfh fGfŠfA flfbfgf fN,lfCf“fXfg f

ISDN ,đŽg,ÆA“d~b%ňü,Æ”ä,x,Ä,‘,È’ÊM,đs,±,Æ,â,Ä,«,Ü,·B’Êí,ì“d~b
%ňü,Ä,íA^ê”É“l,È’ÊM’~“x,í-^•b 9600 frfbfg (bps) ,Ä,·,ªAISDN %ňü,ì’ÊM’~“x,íA64kbps ,Ü,½,í
128kbps ,Ä,·BISDN <@Ší,Æ%ňü,É•K~v,È”i~p,íAf,fff€,Æ“d~b%ňü,đŽg,æè,æ,è,,-
,È,è,Ü,·,ªAÚ’±ŽžŠÔ,ªZZžŠÔ,Äí,þ,ì,ÄA~p~z<à,đß-ñ,Ä,«,é,±,Æ,à, ,è,Ü,·BŽÀ-±,Ä,±,ì,æ,±
,È,‘~’ÊM,ª•K~v,Æ,È,é-á,Æ,µ,Ä,íA½,,ìY’iŽD^ö,đ•ø,í,Ä,ç,éŠé<Æ,âA’â-È,ì’ÊM,đ”ª,±SÇ-
í<Æ,đfŠf, f,ç,ª•K~v,ª , éèè (,½,Æ,í,íA-f,è,½èèŠ,ÉY’u,ª,è,Ä,ç,éf fNfXfe fVf” ,Éf
ftgfEjFfA,đfCf“fXfg f,·, éèèè,È,Ç) ,ªí,í,ç,è,Ü,·B

1 -{,ì ISDN %ňü,É,íA64Kbps ,Äff f^,đ“`~ ,·,é B f ffflf,ª 2 ,Ä,ÆA16Kbps ,Äff f^,đ“`~
,·,éM+~ŽóM~p,ì D f ffflf,ª 1 ,Ä•t,ç,Ä,ç,Ü,·BISDN f f,íAfT f, ,æ,ÑŠefNf
%fCfA”fg,ÉfCf“fXfg f,µ,Ä,,¾,¾,ç (fCf“fXfg f,ì€ižèè,É,Ä,ç,Ä,íAf f,lf}fj...fAf<,đŽQÆ,µ,Ä,-
,¾,¾,ç)B

Še B f ffflf,íA’P“Æ,lf f,Æ,µ,Ä<@“\,·,é,æ,±,ÉV~Ä,«,Ü,·B,Ü,½AISDN fhf%ofCfo,ìŽí-
þ,É,æ,Ä,Ä,íA•;í” ,lf` ffflf<,đ“èè,µ,ÄŽg~p,Ä,«,éèèè,à, ,è,Ü,·B,Ä,Ü,èA2 ,Ä,ì B f ffflf<,Ä’P^ê,lf
 f,Æ,µ,Ä<@“\,·,é,æ,±,ÉV~Ä,µ,ÄÄ“l,É,æ,èL,ç’Ñ^æ•,đŠ,,è“-Ä,é,±,Æ,ª,Ä,«,Ü,·B,±,ì,æ,±,ÉV
~ ,·,é,ÆA%ňü~“x,í 128 Kbps ,Ü,ÄEüã,µ,Ü,·Bf` ffflf<,ì“èè,É,lfhf%ofCfo,²,Æ,ÉEÄ-
L,ì•úŽ@,ªí,ç,è,Ä,ç,é,½,ßAfNf%ofCfA”fg,ÆfT f,ì-¼•ú,Ä“ ,lfhf
%ofCfo,Æ“ ,¶<@Ší,đŽg,í,È, ,è,ì,È,è,Ü,¹,ñB

rasdial

fŠf. [fg fAfNfZfX fT [fxfX, dŠ] Žn, μ AŽw'è, μ, ½ fGf" fgfŠ, É Ú' ±, μ, Ü, · □ B

rasdial fGf" fgfŠ-¼ [ft [fU [-¼ [fpfXf [fh | *]] [/domain: fhf [fCf"] [/phone: "d~b" Ô [t] [/callback: fR [f<fofbfN" Ô [t] [/phonebook: "d~b' fpfX] [/prefixsuffix]

rasdial [fGf" fgfŠ-¼] /disconnect

fpf%o f [f ^

, È, μ

fpf%o f [f ^, dŽw'è, ¹, , È ŽÀ □ s, ·, é, Æ □ A Ç » □ Y, Ì RAS □ Ú' ±, Ì □ ó' Ô, a · \ Ž |, ³, è, Ü, · □ B

fGf" fgfŠ-¼

\systemroot\SYSTEM32\RAS fffBfÇEfnfgfŠ, È, , é Ç » □ Y, Ì .PBK ftf@fCf<, Ì fGf" fgfŠ, dŽw'è, μ, Ü, · □ B fGf" fgfŠ-¼, È, é ó" · ¶ Ž Š, â " Á Ž è · ¶ Ž Š, a Š Ü, Ü, è, Ä, Ç, é □ è □ ±, Í □ A fGf" fgfŠ-¼, d " ñ □ d ^ ø — p · , (") , Å ^ Í, Y, Ü, · □ B

[Ç È Å □ I — p, Ì " d ~ b'] flfvfVf†f", a' I' d, ³, è, Ä, Ç, È, Ç □ è □ ±, Í □ A RAS PHONE.PBK ftf@fCf<, a Ž g, í, è, Ü, · □ B [Ç È Å □ I — p, Ì " d ~ b'] flfvfVf†f", a' I' d, ³, è, Ä, Ç, é □ è □ ±, Í □ A username.pbk , Æ, Ç, x-¼ ' O, Ì ftf@fCf<, a Ž g, í, è □ A, », Ì ftf@fCf<-¼, a □ A [f<fCf,, f<fAfbfv flfbfgf □ □ [fN] fEfbf" fhfE, Ì f^ fCf g f<fo □ [É · \ Ž |, ³, è, Ü, · □ B-¼ ' O, Ì < É □ ±, a " ¶ ¶, μ, ½ □ è □ ±, Í □ A-¼ ' O, È " Ô □ t, a · t, · , Ç, è, Ü, · □ B

Ž Y, Ì fÇEfwfXfgfŠ fGf" fgfŠ, d · Í □ X, ·, é, ±, Æ, È, æ, è □ A.PBK ftf@fCf<, Ì □ è □ S, d · Í □ X, Å, «, Ü, · □ B

HKEY_CURRENT_USER\Software\Microsoft\Windows NT\CurrentVersion\Network\RemoteAccess\PersonalPhonebookPath

ft [fU [-¼ [fpfXf [fh | *]

Ú' ±, È Ž g, xft [fU [-

¼, Æ fpfXf [fh, dŽw'è, μ, Ü, · □ B fA fXf ^ fŠ fXfN, dŽw'è, μ, ½ □ è □ ±, Í □ A Ú' ± Ž Ž, È fpfXf [fh, Ì " ü — Í, d < □, B, Ç, è, Ü, · □ B, ±, Ì, Æ, « □ A " ü — Í, μ, ½ · ¶ Ž Š, Í □ A % œ — È, È, Í · \ Ž |, ³, è, Ü, ¹, ñ □ B

/domain: fhf [fCf"

ft [fU [fA fJ fE f" fg, a, , é fhf [fCf", dŽw'è, μ, Ü, · □ B

, ±, Ì Žw'è, d □ È — a ·, , é, Æ □ A [□, Ö, Ì Ú' ±] f<fCfA f□ fO f {fbfNfX, Ì [fhf [fCf"] f {fbfNfX, È □ Å Ç ä, È " ü — Í, μ, ½ fhf [fCf", a Ž g, í, è, Ü, · □ B

/phone: "d~b" Ô [t

"d~b' , Ì fGf" fgfŠ, Ì " d ~ b" Ô □ t, Å, Í, È, □ A Žw'è, μ, ½ " d ~ b" Ô □ t, a Ž g, í, è, Ü, · □ B

/callback: fR [f<fofbfN" Ô [t

"d~b' , Ì fGf" fgfŠ, Ì fR [f<fofbfN" Ô □ t, Å, Í, È, □ A Žw'è, μ, ½ fR [f<fofbfN" Ô □ t, a Ž g, í, è, Ü, · □ B

/disconnect

Žw'è, μ, ½ fGf" fgfŠ, Ì Ú' ±, d □ Ø' f, μ, Ü, · □ B

/phonebook: "d~b' fpfX

"d~b' ftf@fCf<, Ì fpfX, dŽw'è, μ, Ü, · □ B Šù' è, Å, Í □ A \systemroot\SYSTEM32\RAS\username.PBK , Å, · □ B ftf@fCf<, Ì ftf< fpfX, dŽw'è, Å, «, Ü, · □ B

/prefixsuffix

Ç » □ Y, Ì □ " a " Ô □ t / □ " ö " Ô □ t, Ì □ Y' è (, Ü, ½, Í □ A fGf" fgfŠ, a □ Ú " a " Ô □ t / □ Ú " ö " Ô □ t, Ì □ Y' è, Ì " ä, í, è, È TAPI □ Š □ Y' nf<fCf,, f<, Ì fvf [f p f e f B, Ì □ Y' è, d Ž g, x, æ, x, È □ \ □ —, ³, è, Ä, Ç, é □ è □ ±, Í □ A TAPI □ Š □ Y' nf<fCf,, f<, Ì fvf [f p f e f B, Ì □ Y' è), d " d ~ b" Ô □ t, È " K — p, μ, Ü, · □ B, ±, è, Ç, Ì □ Y' è, Ì f<fCf,, f<fAfbfv flfbfgf □ □ [fN, Å □ \ □ —, ³, è, Ä, Ç, Ü, · □ B Šù' è, Ì □ Y' è, Å, Í □ A, ±, Ì fpf%o f [f ^, Ì f l f t, Å, · □ B

rasdial , Ì □ Ú □ x, È, Å, Ç, Å, Í □ A Ž Y, Ì, Ç, , , è, ©, Ì f {f ^ f", d f N f Š f b f N, μ, Å, , ¾, ³, Ç □ B

rasdial -- '□

□ rasdial -- -á

rasdial -- '□

rasdial ,í□AfŠf,□[fg fAfNfZfX fvf□fOf%of€ (RASPHONE.EXE) ,ì [f_fCf,,f<] f{f^f“ , ,æ,Ñ [□Ø'f] f{f^f“ ,É'Š“-
 , ,éfRf}f“fh f%ofCf“ fRf}f“fh,Á□A'É□í,í□Afofbf` ftf@fCf<, © ,ç□Ú'±,đŠm—

- s, ,é□ê□±,ÉŽg,í,ê,Ü, ·□BRASPHONE.EXE ,ì<@“\,ì,α,¿ŽŸ,ì<@“\,í□Arasdial ,Á,ÍfTf|□[fg,³,ê,Ä,ç,Ü,¹,ň□B
- f_fCf,,f< fV□[fPf“fX't□Af^□[f~fif< f,□[fh ft□[fU□[fGf“fgfŠ,ª•K—v,Æ,É,éfGf“fgfŠ,Ö,ì□Ú'±□B
- □Ú'±,ÉŽ,“s,μ,½,Æ,«,ìŽ©“@fŠf_fCf,,f<□B,½,¾,μ□ARASPHONE ,đŽÁ□s,μ,Ä,ç,é□ê□±,í□Arasdial
- ,Áf_fCf,,f<,³,ê,½fGf“fgfŠ,à□ARASPHONE ,É,æ,Á,ÁfŠf_fCf,,f<,³,ê,Ü,·□B
- flfyfç□[f^,Ü,½,íŽè“@,É,æ,éf_fCf,,f<□B

rasdial ,ì□Ú□×,É,Ä,ç,Ä,í□AZŸ,ì,ç, ,ê,© ,ìf{f^f“ ,đfNfŠfbfN,μ,Ä, ,¾,³,ç□B

▣ rasdial -- —á

▣ rasdial

rasdial -- —á

RASPHONE.PBK ,ì OFFICE ,Æ,ç,ƣfGf“fgfŠ,É□Ú’±,·,é,É,Í□AŽŸ,ì,æ,ƣ,É“ü—Í,μ,Û,·□B

rasdial office

RASPHONE.PBK ,ì OFFICE 2 ,Æ,ç,ƣfGf“fgfŠ,É□Ú’±,μ□AƒR□[f<fofbfN”Ô□t,ðŽw’è,·,é,É,Í□AŽŸ,ì,æ,ƣ,É“ü—Í,μ,Û,·□B

rasdial "office 2" /callback:555-8086

EAST OFFICE ,Æ,ç,ƣfGf“fgfŠ,Æ,ì□Ú’±,ð%øδ□œ,·,é,É,Í□AŽŸ,ì,æ,ƣ,É“ü—Í,μ,Û,·□B

rasdial "EAST OFFICE" /d

rasdial ,ì□Ú□×,É,Â,ç,Ä,Í□AŽŸ,ì,ç,,.é,©,ìf{f^f“,ðfNfŠfbfN,μ,Ä,,¾,¾,ç□B

▣ rasdial

▣ rasdial -- ‘□

rasadmin

Žw'è,μ,½fpf%of□□[f^,đŽg,Á,Ä□AfŠf,□[fg fAfNfZfXŠÇ—□fvf□fOf%of€,đ•N“® ,μ,Ü,·□B

rasadmin [fhf□fCf“ -¼ | fT□[fo□[-¼] [/l] [/h]

fpf%of□□[f^

fhf□fCf“ -¼

ŠÇ—□,·,éfhf□fCf“,đŽw'è,μ,Ü,·□BŽw'è,μ,½fhf□fCf“,ì RAS fT□[fo□[,ª\Ž!,³,è,Ü,·□B

fT□[fo□[-¼

ŠÇ—□,·,éfT□[fo□[,đŽw'è,μ,Ü,·□Bf□fOfif“,μ,½ft□[fU□[,í Administrators

fOf□[fv,ìf□“fo□[,Á,È,·,ê,Î,È,è,Ü,¹,ñ□B

/l

ŠÇ—□ŽÒft□[fefBfŠfefB,đ□A'á'¬%oñ□ü□Ú'±f,□[fh,ÁŽÀ□s,·,é,æ,κ,É□Ý'è,μ,Ü,·□B,±,ìfpf

%of□□[f^,đŽw'è,·,é,Æ□A'd~b%oñ□ü,đ%oi,·,é,ÆŽžŠÖ,ì,©,©,éfhf□fCf“ -¼,Æft□[fU□[-¼,ìŽQ□Æ,ªŽg—

p,Á,«,È,·,è,Ü,·□BfT□[fo□[,âft□[fU□[,đŽQ□Æ,·,é•K—

v,ª,È,ç□ê□‡,í□AfpftfH□[f}f“fX,đCEü□ă,³,¹,é,½,ß,É□A,±,ìfpf%of□□[f^,đŽw'è,μ,Ä,,¾,¾,ç□B(□¬•¶Žš,ì L ,Á,·)

/h

ŠÇ—□ŽÒft□[fefBfŠfefB,đ□AŠù'è,ìf,□[fh,Á, ,é□, '¬%oñ□ü□Ú'±f,□[fh,ÁŽÀ□s,·,é,æ,κ,É□Ý'è,μ,Ü,·□B,±,ìfpf

%of□□[f^,đŽw'è,·,é,Æ□Afhf□fCf“ -¼,Æft□[fU□[-¼,đŽQ□Æ,Á,«,Ü,·□B

rasadmin ,ì□Ú□×,É,Á,ç,Ä,í□AZŽ,ì,ç,, ,é,©,ìf{f^f“,đfNfŠfbfN,μ,Ä,,¾,¾,ç□B

▣ rasadmin -- '□

▣ rasadmin -- —á

rasadmin -- '□

rasadmin ,É,ífhf□fCf“ -¼,ÆfT□[fo□[-¼,ì,Ç,ì,ç,© ^ê•û,ðŽw'è,Å,«,Ü,·,ª□A—¼•û,ðŽw'è,·,é,±,Æ,í,Å,«,Ü,¹,ñ□B

^È'O,É'I'ð,μ,½Šefhf□fCf“, ;,æ,ÑfT□[fo□[,ì%ñ□ü□Ú'±f,□[fh ('á'¬□A□,'¬,ì,ç,,ê,©)

,í□AƒƒfWƒXƒgƒŠ,É•Ú'¶,³,ê,Ä,ç,Ü,·□B,±,ì,½,ß□A'á'¬%ñ□ü□Ú'±,©,ç□,'¬%ñ□ü□Ú'±

,Ö,Æ□A^È'O,ì□Ý'è,ð•í,ì,é•K—v,ª, ,é□ê□†,í□**Arasadmin** ,É /h fpƒ%of□□[f^,ðŽw'è,μ,È,¯,ê,î,È,è,Ü,¹,ñ□B

rasadmin ,ì□Ú□×,É,Â,ç,Ä,í□AŽŸ,ì,ç,,ê,© ,ìf{f^f“,ðfNfŠfbfN,μ,Ä,,¾,¾,ç□B

▣ rasadmin -- —á

▣ rasadmin

rasadmin -- -á

'á'¬%ñüú'±,ÁANT_SERVER01 ,Æ,ç,æ-¼'O,lfT[fö[,đŠÇ—,.,é,É,ÍAZŸ,ì,æ,æ,É"ü—í,μ,Ü,·B

rasadmin \\nt_server01 /I

rasadmin ,ìÚ×,É,Á,ç,Ä,ÍAZŸ,ì,ç,,é,©,lf{f^f",đfNfŠfbfN,μ,Ä,,¼,³,çB

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▣ rasadmin

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Windows NT ,İft□[fU□[fA]fEf“fg,Æfhf□fCf“,İ□A“F□Ø,İ^Ă□+‰»É,æ,éfZfLf...

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,±,±,Ă,İ□AZŸ,İ,æ,α,È RAS fZfLf...fŠfefB<@“\,É,Ă,ç,Ă□à-¾,μ,Ü,·□B

- fhf□fCf“,Ă,İ RAS ,İfZfbfgfAfbfv
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- ft□[fU□[fA]fEf“fg,É'İ,·,é RAS fZfLf...fŠfefB,İ□Ÿ'è
- ff□[f^,İ^Ă□+‰»
- fR□[f<fofbfN fZfLf...fŠfefB
- fZfLf...fŠfefB fzXfg,İfTf|□[fg
- ŠĂ□,

fhfjfcf"à,À RAS ,dfZfbfgfAfbfv,·,é

RAS fZfLf...fŠfefB,dfNf%fcfAfg,É"K—p,·,é,É,íAŽŸ,ì 3 ,À,ìžèq,ª•K—v,À,·qB,Û,·qAWindows NT fhfjfcf",É RAS ,dfZfbfgfAfbfv,µ,Û,·qBŽŸ,ÉqAWindows NT ,ìftq[fUq[fAfffef"fg,ÉfŠf,qlfg fAfNfZfX,ì<- %oÀ,ð—^,·,Û,·qBqÀcä,ÉqA,±,è,ç,ìfAfffef"fg,É RAS fZfLf...fŠfefB,ðqY'è,µ,Û,·qB

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'q fhfjfcf",íqA"·—q"i,É'P^è,À,í,É,íqA~_—q"i,É'P^è,À,·qBqW't %o»,³,è,½ftq[foq[,íqA,³,Û,·,Û,ÉqèqŠ,É"z'u,µ,À,àqA,»,ìfhfjfcf",ì^è•",É,·,é,±,Æ,ª,À,«,·,Û,·qB

fhfjfcf",ìqM—ŠŠÖEW,ðŠm— š,µ,½qèq,íqAŠeftq[fUq[,ìftq[fUq[fAfffef"fg,ð'P^è,ìfhfjfcf",ÉfZfbfgfAfbfv,·,é,±,Æ,ªqA'P,ì•û- @,À,·qB"Á,ÉqAVersion 1.1 ^É'O,ì RAS ,ðŽg,À,Äf_fcf,,f:fcf",·,éftq[fUq[,ª,ç,éqèq,É"—,À,í,Û,è,Û,·qBRAS ftq[foq[,íqA,»,ìftq[foq[,ìfhfjfcf",Àftq[fUq[,ìfAfffef"fg,ªCE@,À,©,ç,È,©,À,½qèq,íqAqM—Š,³,è,é'ª ,ìfhfjfcf",ð"žž,ÉŠm"F,µqAqAq%o,ì%ož"š,ðŽó,~"ü,è,Û,·qBqAq%o,É %ož"š,µ,½fhfjfcf",ìftq[fUq[,ª•É,ìfpfXfq[fh,ðžq,À,À,ç,é,©qA,Û,½,ìfŠf,qlfg fAfNfZfX,ì<-%oÀ,ðžq,À,À,ç ,È,çqèq,íqA2 "Ô-Ú,É%ož"š,µ,½•É,ìfhfjfcf",ÉfŠf,qlfg fAfNfZfX,ì<- %oÀ,ðžq,À"·,¶ftq[fUq[fAfffef"fg,ª ,À,À,àqA"�qØ,ìž,·"s,µ,Û,·qB

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'q Windows NT Server ,ðŽg,À,À,ç,éqèq,íqAftq[fUq[fAfffef"fg,Æfhfjfcf",ìqÚq,É,À,ç ,À,íqAqWindows NT Server fRf"fZfvfg fAf"fh fvfxfef"fff"fo fKfCfhq,ðžqQÆ,µ,À,¾,¾,³,çqB

RAS .Ö,lfAfNfZfX,ð<-‰Å,µAfŠf,[]fg fAfNfZfX,ì<-‰Å,ð•t—^,·,é

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[]f^,Û,½,lfhf[]fCf“ ,íft[]fU[][fAfjJef“fg,ð’I’ð,µ,Û,·BŽŸ,ÉACEã,Åà-¾,·,é•û-

@,ÅAfT[]fU[][fAfjJef“fg,ÉŠf,[]fg fAfNfZfX,ì<-‰Å,ð—^,·,Û,·BfŠf,[]fg ft[]fU[][,íAfŠf,[]fg fAfNfZfX,ì”F[]Ø,ð’È‰β,µ,Å LAN ,ÉÛ’±,µ,½CEã[]AfAfNfZfXCE ,ðŽ,ÁfAfvfŠfP[]fVf#f“

fT[]fo[][,ìŽ’CE¹,ÉfAfNfZfX,Á,«,Û,·BfŠf,[]fg fAfNfZfX,ì<-‰Å,íAfT[]fU[][,²,Æ,É—LCEø,Û,½,í-

³CEø,ÉŸ’è,·,é,±,Æ,É’^Ó,µ,Ä,,¾,³,çBRAS ,ª Windows NT Server []ã,Ä“@[]ì,µ,Ä,ç

,éê[]#,àAfLfbfgf[]fN,Ö,lfAfNfZfX,íAfAfNfZfX,ªK—v,Éft[]fU[][,²,Æ,É-¾Ž’I,É<-

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flfbfgf[]fN[]ã,ìM—Š,³,é,é’æ,lfhf[]fCf“ ,Û,½,íRf“fsf...[]f^,íft[]fU[][fAfjJef“fg,ðŽg,ç,Û,·B

fŠf,[]fg fNf‰fCfAf“fg,ðhf[]fCf“ ,É’Ç‰Å,·,é•û-@,É,Ä,ç,Ä,íAfRf“fgf[]f< fpflf<,lfwf<fv,ðŽQ[]Æ,µ,Ä,-

,¾,¾,çB

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% Á, ., é, © ¶ A, Ü, ½, í ft [fo [l, Ö, ì fAfNfZfX, ì, Ý, ð < - % Á, ., é, ©, ð Ž w ‘ è, µ, Ü, · B ¶ Ú ¶ ×, É, Á, ç, Ä, í A ¶ u L A N
f ¶ f ¶ f ¶ f ¶ f <, ð Ž g, ¶, æ, ¶, É RAS, ð ¶ ¶ —, ., é ¶ v, ð Ž Q ¶ Æ, µ, Ä, , ¾, ³, ç ¶ B

Ú'±Žž,lfzflf...fšfefB,ì,μ,Ÿ

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1 fNf%ofCfAf"fg,íAf_fCf,,fAfbfv flfbfgf[fn,ðžg,Á,Äšf,[fg fAfNfZfX fT[fo[,Éf_fCf,,f<,μ,Û,·B

2 fT[fo[,íA"FO,ì,½,ß,ì"ü—í,ðfNf%ofCfAf"fg,É<,ß,Û,·B

3 fNf%ofCfAf"fg,íA%ž"š,ð^Ä+%"»μ,ÄfT[fo[,É'—M,μ,Û,·B

4 fT[fo[,íAft[fo[f[fo[f^fx[fX,ÉŠì,Ä,ç,Ä%ž"š,ðšm"F,μ,Û,·B

5 fAfjEf"fg,^a—LCEø,Ä, ,é,íAft[fo[,íAft[fo[.ífšf,[fg fAfNfZfX,ì<-%oÄ,ðšm"F,μ,Û,·B

6 fšf,[fg fAfNfZfX,ì<-%oÄ,^a—^,ì,ç,é,Ä,ç,é,íAft[fo[,íAftNf%ofCfAf"fg,ÉÚ'±,μ,Û,·B

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fZfLf...fŠfefB,ð,³,ç,É□,·,ß,é,½,ß,É□ARAS ,É,lfR□[f·fofbfN<@“\,ª—p^Ó,³,è,Ä,ç,Ü,·□BfR□[f·fofbfN<@“\,ðŽg,π ,Æ□ARAS fT□[fo□[,ÉfAfNfZfX,Å,« ,é,ì,í□A’Á’è,ì□è□Š, ©,ç□Ú’±,μ,æ,π,Æ,μ,Ä,ç ,éft□[fU□[,¾,¬ ,É,È,è,Ü,·□B,Ü,½□Aft□[fU□[,ì“d~b—¿à,ð□ß-ñ,·,é,±,Æ,à,Å,« ,Ü,·□B

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Šeft□[fU□[,lfR□[f·fofbfN,ì<-%oÄ,í□AfŠf,□[fg fAfNfZfX,ì<-%oÄ,ð—^ ,ì,é,Æ,« ,É□□¬,μ,Ü,· (fŠf,□[fg fAfNfZfX,ì<-%oÄ,ì·t—^ ,É,Ä,ç,Ä,í□A□ufŠf,□[fg fAfNfZfX,ì<-%oÄ,ð·t—^ ,·,é□v,ðŽQ□Æ,μ,Ä,¾,³,ç)□B

fŠf,□[fg fAfNfZfXŠÇ—□,ì fŠf,□[fg fAfNfZfX,ì<-%oÄ] f_fCfAf□fO f{fbfNfX,Å,í□AZŽ,ì 3 ,Ä,lfR□[f·fofbfN flfvfVf†“ ,ì,ç ,·,è, ©,ð’ì’ð,Å,« ,Ü,·□B

- [Ž-’O□Ý’è]
- [”□MŽÒ,É,æ,é□Ý’è]
- [fR□[f·fofbfN,μ,É,ç] (Šù’è,ì□Ý’è)

’□ ft□[fU□[,ª”F□Ø,³,è,ÄfR□[f·fofbfN,³,è,é,Ü,Å (fR□[f·fofbfN,ª□Ý’è,³,è,Ä,ç,é□è□±)□AfŠf,□[fg fNf %ofCfAf”fg,½,ü,ífŠf,□[fg fAfNfZfX fT□[fo□[, ©,çff□[f^ ,ì”]— ,í□s,í,é,Ü,¹,ñ□B

ft□[fU□[,lfR□[f·fofbfN flfvfVf†“ ,ð·ĭ□X,·,é,É,í

- 1 fŠf,□[fg fAfNfZfXŠÇ—□,ð<N“ @ ,μ,Ü,·□B
- 2 [ft□[fU□[] f□fj...□[,ì fŠf,□[fg fAfNfZfX,ì<-%oÄ] ,ðfNfŠfbfN,μ,Ü,·□B
- 3 ft□[fU□[,ð’ì’ð,μ,Ü,·□B
- 4 fR□[f·fofbfN flfvfVf†“ ,É·K—v,È·ĭ□X,ð%oÄ,ì,Ü,·□B

[Ž-’O□Ý’è]

□Å,à^À’S□« ,ì□,·ç□Ý’è,ð’ì,Ô,É,í□A[Ž-’O□Ý’è] ,ð’ì’ð,μ□Aft□[fU□[,lf,fff€,É□Ú’±,³,è,Ä,ç,é %oñ□ü,ì“d~b”Ô□±,ð“ü—í,μ,Ü,·□B,±,ì□è□±Aft□[fU□[, ©,ç,ìCEÄ,Ñ□o,μ,ªfŠf,□[fg fAfNfZfX fT□[fo□[,É“í,- ,Æ□Aft□[fo□[,íŽÝ,ìŽè□±,ÄfR□[f·fofbfN,μ,Ü,·□B

- 1 fT□[fo□[,lf□[fU□[[-¼,ÆfpfXf□□[fh,ª□³,μ,ç, ©,Ç,π, ©,ð”»·É,μ,Ü,·□B
- 2 □³,μ,¬ ,é,í□A,» ,ìft□[fU□[,ÉfR□[f·fofbfN,·,é,±,Æ,ðŽì ,·f□bfZ□[fW,ð·Ô,μ,Ü,·□B
- 3 □Ú’±,ð□Ø’f,μ□A , ,ç, ©, ¶,ß□Ý’è,³,è,Ä,ç,é”Ô□±,ðŽg,Á,Äft□[fU□[,ÉfR□[f·fofbfN,μ,Ü,·□B ,±,ìflfvfVf†“ ,í□AZŽ“î,É ,éRf”fsf...□[f^ ,È,Ç□A□□Ý,lfŠf,□[fg fRf”fsf...□[f^ ,É-ð—s,¿,Ü,·□B

[”□MŽÒ,É,æ,é□Ý’è]

[”□MŽÒ,É,æ,é□Ý’è] ,í□AZŽA□Ú,É,lfZfLf...fŠfefB<@“\ ,Ä,í , ,è,Ü,¹,ñ,ª□A,³,Ü,´ ,Ü,è□è□Š, ©,ç^Ü,È,é“d~b”Ô□±,ÅCEÄ,Ñ□o,·fNf%ofCfAf”fg,É-ð—s,¿,Ü,·□B,Ü,½□A,± ,ì,æ,π,Éft□[fU□[,ì“d~b—¿à,ð□ß-ñ,·,é,±,Æ,à,Å,« ,Ü,·□Bft□[fU□[, ©,ç,ìCEÄ,Ñ□o,μ,ªfŠf,□[fg fAfNfZfX fT□[fo□[,É“í,- ,Æ□Aft□[fo□[,íŽÝ,ìŽè□±,ÄfR□[f·fofbfN,μ,Ü,·□B

- 1 fT□[fo□[,í□A□Å□%o,Éft□[fU□[[-¼,ÆfpfXf□□[fh,ª□³,μ,ç, ©,Ç,π, ©,ð”»·É,μ,Ü,·□B
- 2 □³,μ,¬ ,é,í□Aft□[fU□[,lfRf”fsf...□[f^ ,É [fR□[f·fofbfN] f_fCfAf□fO f{fbfNfX,ª·Žì,³,è,Ü,·□B
- 3 ft□[fU□[,í□Af_fCfAf□fO f{fbfNfX,ÉfR□[f·fofbfN,ì”Ô□±,ð“ü— í,μ□Aft□[fo□[, ©,çfR□[f·fofbfN,³,è,é,ì,ð’Ò,¿,Ü,·□B

[fR□[f·fofbfN,É,μ]

ft□[fU□[fAfJfEf”fg,ªfR□[f·fofbfN—p,É□□¬,³,è,Ä,ç,É,ç□è□±,í□A,» ,ìft□[fU□[,ì- ¼’O,ÆfpfXf□□[fh,ª”F□Ø,³,è,é,Æ□A’¼,¿,É RAS □Ú’±,ªŠm—s,³,è,Ü,·□B

'ž%oi'•'u,đ%oi,μ,ÄÜ'±,•,é

RAS ,íAfšf,ífg fAfNfZfX fNf%ofCfAf"fg,Æfšf,ífg fAfNfZfX fTífoí,ìšò,ÁAŠeŽí,ì "'ž%oi'•'u" (fZfLf... fšfefB fzfXfg,ÆfXfCfbf`) ,đTfíífg,μ,Ä,Ü,•B'ž%oi'•'u,É,íAZŽ,ì,æ,π,È'•'u,è, ,è,Ü,•B

- f,ff€ fvíí< fXfCfbf`
- fZfLf...fšfefB fzfXfg
- X.25 flfbfgfíííN

fNf%ofCfAf"fg,íA'ž%oi'•'u,đ%oi,μ,Äfšf,ífg fAfNfZfX fTífoí,ÉÜ'±,•,é'ó,ÉAZŽ,ì 2 Ží—p,íf_fCfAfífo (fTífoí,ì"ü—í%æ-È,ÆfRf"fsf...íí^,ì%ž"š%æ-È) ,ì,ç,,è,©,đŽÀs,μAŠe'ž%oi'•'u,Æ'ÉM,μ,Ü,•B

- íí"íf_fCfAfífo (íí,É"~,í"à—e,ÁAftíífoí,©,ç,ì"ü—í,đ•K—v,Æ,μ,É,çf_fCfAfífo)
- 'ŠCEYf_fCfAfífo (íí,É^Ü,È,é"à—e,ÁAftíífoí,©,ç,ì"ü—í,đ•K—v,Æ,•,éf_fCfAfífo)

Še'ž%oi'•'u,è³,μ,"@í,•,é,æ,π,ÉAfNf%ofCfAf"fg,đíí—,μ,È,•,é,ì,È,è,Ü,¹,ñB

íí"íf_fCfAfífo,Æ'ŠCEYf_fCfAfífo,ì—¼•ú,è•K—v,Èéíí,íAZŽ,ì 2 ,Á,ìžèíí,đŽÀs,μ,Ü,•B

1 íí"íf_fCfAfífo,ì,½,ß,ífXfNfšfvfg,đ<Líq,μ,Ü,• (íí'ž%oi'•'u—p,ífXfNfšfvfg,đ<Líq,•,éíív,đŽQíí,μ,Ä,-,¾,³,ç)B

2 'ŠCEYf_fCfAfífo,ì,½,ß,Éf^íííí~íííí f,íííí,đfAfNfefBfu,É,μ,Ü,• (íí'ž%ofCfAf"fg,Áf^íííí~íííí f,íííí,đfAfNfefBfu,É,•,éíív,đŽQíí,μ,Ä,,¾,³,ç)B

1 Ží—p,íf_fCfAfífo,μ,©•K—v,È,çéíí,íAZŽ,ì,æ,π,ÉAíí<L,ì^è•ú,ìžèíí,¾,•,đŽÀs,μ,Ü,•B

- fNf%ofCfAf"fg,éíííí"íf_fCfAfífo,đŽg,π'ž%oi'•'u (X.25 flfbfgfíííN,È,Ç) ,đ 1 ,Á,¾,•%oi,μ,ÄÜ'± ,•,ééíí,íAZŽèíí 1 ,¾,•,đŽÀs,μ,Ü,•B
- fNf%ofCfAf"fg,éíííí'ŠCEYf_fCfAfífo,đŽg,πfZfLf...fšfefB fzfXfg,đ%oi,μ,ÄÜ'±,•,ééíí,íAZŽèíí 2 ,¾,•,đŽÀs,μ,Ü,•B

'‡%oi'•'u—p,lfXfNfŠfvg,đ<L□q,.,é

□Ä"lf_fCfAf□fO,lfXfNfŠfvg,í□ASWITCH.INF ftf@fCf<,Å□AŠef_fCfAf□fO,²,Æ,É 1
,Ä,lfZfNfVf†f" ,É<L□q,³,é,Ü,·□B'‡%oi'•'u—p,lfXfNfŠfvg,í□A,.,x,Ä SWITCH.INF ftf@fCf<,É'Ç%ooÁ,μ,Ä,,³/₄,³,ç
(PAD.INF ftf@fCf<,É X.25 flfbfgf□□lfN fXfNfŠfvg,ì—á,³, ,é,ì,Å□AZQ□Æ,μ,Ä,,³/₄,³,ç)□B

f,fff€ fv□[f<,Ü,¹/₂,lfZfLf...fŠfefB fzfXfg,đ%oi,μ,Ä□Ú'±
,.,é□é□‡,í□A,»,ì'•'u,Æ,ìŠÖ,Åf_fCfAf□fO,đŽ□,¹/₂,È,¯,é,î,È,è,Ü,¹,ñ□Bf_fCfAf□fO,í□Af_fCf,,f<,ì'O,©f_fCf,,f<,ìÆä
,ì,Ç,ì,ç,©,É"-

□¶,μ,Ü,·□Bf_fCf,,f<'Of_fCfAf□fO,Æf_fCf,,f<Æäf_fCfAf□fO,É,í□A□Ä"lf_fCfAf□fO,Æ'ŠCEÝf_fCfAf□fO,ì,ç
,.,é,Ä,àŽg—p,Ä,«,Ü,; ,□A^è"È,É□Af_fCf,,f<'Of_fCfAf□fO,í□Ä"lf_fCfAf□fO,Ä, ,è□Af_fCf,,f<Æäf_fCfAf□fO,ì'S
CEÝf_fCfAf□fO,Ä,·□B

Windows NT ,Ä'ñ<ÿ,³,é,é SWITCH.INF ftf@fCf<,É,í□A"Ä—p,lfXfNfŠfvg,³<L□q,³,é,Ä,ç,Ü,·□BPPP
fT□[fo□[,É□Ú'±,.,é'¹/₂,,ì□é□‡,í□A,±,lfXfNfŠfvg,đ,Ü,Æ,ñ,ç,Ü,¹/₂,ì,Ü,Ä,¹/₂,•í□X,¹,, ,ÉŽg—
p,Ä,«,Ü,·□B,Ü, ,□A"Ä—p,lfXfNfŠfvg,đŽg,Ä,Ä□Ú'±,μ,Ä,,³/₄,³,ç□B"Ä—p,lfXfNfŠfvg,Ä□³,μ,□Ú'±
,Ä,«,É,ç□é□‡,í□A,±,lfXfNfŠfvg,đfRfs□[,μ□A□Ú'±□æ,lfŠf,□[fg fRf"fsf...
□[f^ ,lf□fOfIf"Žè□‡,É□‡,í,¹,Ä□C□³,μ,Ü,·□B

ŠÖ~A□€-Ú

SWITCH.INF fXfNfŠfvg,đŽg,Ä,ÄfŠf,□[fg f□fOfIf",đŽ©"@%o»,.,é

fzfLf...fŠfefB fzfXfg

"fzfLf...fŠfefB fzfXfg" ,Æ,Í,ÅfŠf,[]fg fNf%ofCfAf"fg,©,ç,fCf,,f<fCf" ,µ,½ft[]fU[] ,ÉÅfŠf,[]fg fAfNfZfX ft[]fo[] ,ÉÚ'± ,·,éCE À,ª— ^ ,;ç,è,Ä,ç,é,©,Ç,æ,©,ðCEÿ[] ,·,é,½,ß,lfT[]fh fp[]fB» ,l" F[]ffofCfX,Å,·B,±,ìCEÿ[] ,Í,ÅARAS ,Æ Windows NT Server ,ÅŠù,É'ñ<ÿ,ª,è,Ä,ç,éfZfLf... fŠfefB,ð•à'« ,µ,Û,·B

fzfLf...fŠfefB fzfXfg,Í,ÅfŠf,[]fg ft[]fU[] ,Æ RAS ft[]fo[] ,ìŠÒ,É'u,©,è,Û,·B'Ê[]AfZfLf...fŠfefB fzfXfg,Í,Å ,éŽí,lfN[]fhfEfffA fl[] ,È,Ç,ð—v<[] ,·,é,±,Æ,É,æ,Á,Ä" F[]Ø,ðs,ç[]AfŠf,[]fg fAfNfZfX,ÉfZfLf... fŠfefB,ì'w,ð'Ç%Á,µ,Û,·BfŠf,[]fg ft[]fU[] ,Í,ÅARAS ft[]fo[] ,Ö,lfAfNfZfX,ª<-%Á,ª,è,é'O,É[]A" — []"l,ÉfL[] ,ðŠ—L,µ,Ä,ç,é,©,Ç,æ,©,ðCEÿ[] ,ª,è,Û,·BfZfLf...fŠfefB fzfXfg,Í,Åf[]fVf" fA[]LfefNf"j,[]»·i,É,ì,Å[]ARAS fzfLf...fŠfefB,ìCEÿ[] ,ì,½,ß,Éft[]fU[] ,É•K—v,É<@"\,ð,ª,Û,´,Û,ÉfVfXfef€ ,©,ç'l,Ö,±,Æ,ª,Ä,« ,Û,·B

,½,Æ,ì,Í,Å ,éŽí,lfZfLf...fŠfefB fVfXfef€,Í,ÅfZfLf...fŠfefB fzfXfg,ÆfZfLf...fŠfefB f[]fh,Æ,ç,æ 2 ,Ä,lfN[]fhfEfffA fffofCfX,Å[]— ,ª,è,Ä,ç,Û,·B"fzfLf...fŠfefB fzfXfg" ,Í,ÅfŠf,[]fg fAfNfZfX ft[]fo[] ,Æf,fff€ ,ìŠÒ,É'g,ÿž,Û,è,Û,·B"fzfLf...fŠfefB f[]fh" ,Í,ÅfNfCfWfbfg f[]fh'ö"x,lfTfCfY,[]—CE ^ ,lfffofCfX,Å[]Af'f^f" ,ì,È,çf[]fhCE ^ ,ì"d'ì,ÉŽ— ,Ä,ç,Û,·BfZfLf...fŠfefB f[]fh,É,Í,Å1 •ª,ª,Æ,É^Û,È,éfAfNfZfX"Ô[] ,ª•\Ží,ª,è,Û,·B,±,ì"Ô[] ,Í,ÅfZfLf...fŠfefB fzfXfg,Å 1 •ª,ª,Æ,ÉCEvŽ,ª,è,é" ,¶"Ô[] ,Æ"Šú,µ,Ä,ç,Û,·BfŠf,[]fg fAfNfZfX ft[]fo[] ,ÉÚ'± ,·,é,Æ,« ,ÉÅfŠf,[]fg ft[]fU[] ,Í,ÅfZfLf...fŠfefB f[]fh,É•Ží,ª,è,é"Ô[] ,ðfzXfg,É—M,µ,Û,·B"Ô[] ,ª³,µ,´ ,è,Í,ÅfZfLf...fŠfefB fzfXfg,Í,ÅfŠf,[]fg ft[]fU[] ,ðfT[]fo[] ,ÉÚ'± ,µ,Û,·B

•È,ìŽí—p,lfZfLf...fŠfefB fzfXfg,Å,Í,ÅfŠf,[]fg ft[]fU[] ,ÉÅft[]fU[] [-¼ (fŠf,[]fg fAfNfZfX ft[]fo[] ,É"o" ^ ,ª,è,Ä,ç,éft[]fU[] [-¼,Æ" ,¶-¼' O,Å,à[]A^Û,È,é-¼' O,Å,à,©,Û,ç,Û,¹,ñ) ,ÆfpfXf[]fh (fŠf,[]fg fAfNfZfX ft[]fo[] ,É"o" ^ ,ª,è,Ä,ç,éfpfXf[]fh,Æ,ì^Û,È,è,Û,·) ,ì"ü—ì,ð<[] ,ß,Û,·B

fzfLf...fŠfefB fzfXfg,Í,ÅfZfLf...fŠfefB<@"\,ª—LCEø,É,È,é'O,É[]ARAS ft[]fo[] ,æf,fff€,ð[]%Šú%» ,Å,« ,é,æ,æ ,É[]— ,ª,è,Ä,ç,Û,·,é,ì,È,è,Û,¹,ñ[]B,Û,½[]ARAS ft[]fo[] ,Í,ÅfZfLf...fŠfefB fzfXfg,©,ç,lfZfLf...fŠfefB f'ffbfN,ðŽó,´ ,é,±,Æ,È,Í,ÅfZfLf...fŠfefB fzfXfg,ÉÚ'± ,ª,è,Ä,ç,é,fff€,ð'¼[]Ú[]%Šú %» ,Å,« ,Û,·,é,ì,È,è,Û,¹,ñ[]BfZfLf...fŠfefB fzfXfg,Í,ÅARAS ft[]fo[] ,æf,fff€,ð[]%Šú%» ,µ,æ,æ,Æ,´ ,é,Æ[]A,± ,ì[]— ,ðf'fCf,,f<fAfEfg,Æ,µ,Ä%ðŽß,· ,é,±,Æ,ª, ,è,Û,·B

,Û,½[]AfzXfg,ì'É[]M" —x,Í,ÅZ" @ " @ÿ'è,Å,ì,È,Í,ÅCEÀ'è" —x (bps) ,ÄfzfbfgfAfbfv,µ,Ä, ,¾,ª,ç[]BCEÀ'è'l,ì bps ,Í,Å,±,lfffofCfX,É'ì%ž,· ,é MODEM.INF ftf@fCf<,lfGf"fgš,ì **MAXCONNECTBPS** fpf %of[]f^ ,ì'l,Æ" ,¶,É,µ,Û,·B

ft[]fh fp[]fB» ,lfZfLf...fŠfefB fffofCfX,ðfŠf,[]fg fAfNfZfX ft[]fX,Å—~—p,·,é,É,Í

1 fŠf,[]fg fAfNfZfX ft[]fo[] ,lf,fff€,ª[]AMODEM.INF ftf@fCf<,lfZfLf...fŠfefB fzfXfg,lfZfNfVfj" ,É<L[]q,ª,è,Ä,ç,é,fff€,Æ^Û,È,é[]è[] ,Í,ÅfŠf,[]fg fAfNfZfX ft[]fo[] ,ì MODEM.INF ftf@fCf<,ðjffXf^f}fCfY,µ[]AfZfLf...fŠfefB fzfXfg,ðfT[]fo[] ,lf,fff€,É[] ,ì,¹,é•K—v,ª ,è,Û,·B[]ufŠf,[]fg fAfNfZfX ft[]fo[] ,ì MODEM.INF ,ðjffXf^f}fCfY,·,é[]v,´ ,æ,Ñ[]ufZfLf...fŠfefB fzfXfg,ðfCf"Xfg[]f< ,·,é[]v,ðŽQ[]Æ,µ,Ä, ,¾,ª,ç[]B

2 fŠf,[]fg ft[]fU[] ,Í,Åf^[]f~fif< f,[]fh,ðfAfNfefBfu,É,µ,ÄfZfLf...fŠfefB fzfXfg,Æ'í~b,µ,È,´ ,é,ì,È,è,Û,¹,ñ[]B[]ufNf%ofCfAf"fg,Åf^[]f~fif< f,[]fh,ðfAfNfefBfu,É,·,é[]v,ðŽQ[]Æ,µ,Ä, ,¾,ª,ç[]B

'[] Security Dynamics ,lfZfLf...fŠfefB fzfXfg,ðŽg,æ,É,Í,ÅARAS ,ÉŽg,æf,fff€,ð[]%Šú %» ,·,é,½,ß,É[]ASecurity Dynamics ,lfv[]f[]fCf_ ,ð'È,¶,ÄfRfNfNf^ ,ð 2 ,Ä,´ <[] ,ß,ç,½,¾,•K—v,ª ,è,Û,·B,» ,ì[] ,Í,Åf'fCf,,f<fAfEfg flfVfVfj" ,ª•K—v,ÉŽ|,ð,´ " ,ì, ,¾,ª,ç[]BfVf[]f[]fCf_ ,©,ç[]AAND fQ[]fg,ÆfWfff"fp f{fbfNfX,ª' —•t,ª,è,Û,·BACM/400 ,lfZfLf...fŠfefB fzfXfg,ì[]è[] ,Í,Å•É,lf ffgfEfffA,ª' —•t,ª,è,Û,·B

fŠf,[]fg fAfNfZfX fT[]fo[], ì MODEM.INF ,ðffjXf^f}fCfY,·,é

fŠf,[]fg fAfNfZfX fT[]fo[],Æf,fff€,ìŠÖ,ÉfZfLf...fŠfefB fzfXfg,ð'g,Ý[]ž,b,Æ[]AfT[]fo[],ìf,fff€,ÆfZfLf...fŠfefB fzfXfg,í[]A[]V,μ,ç Ží—p,ìf,fff€,Æ,μ,Ä<α,É<@"\,μ,Ü,·[]BMODEM.INF ftf@fCf<,í[]A'Á'è,ìf,fff€,Æ'í,É,È,Á,Ä,ç ,éfTf[]fg'í[]Ü,ìfZfLf...fŠfefB fzfXfg,ì[]Ý'è,ðfef"fvf[]f[]fg,Æ,μ,Ä'ñ<Ý,μ,Ü,· (,½,Æ,ì,ì[]AACM/400 ,í[]AAT&T@ Comsphere 3820 f,fff€,Æ'í,É,È,Á,Ä,ç,Ü,·)[]B

fZfLf...fŠfefB fzfXfg,ð•É,ìf,fff€,Æ<α,ÉŽg,α,É,í[]AMODEM.INF ftf@fCf<,ð[]C[]³,μ,È,·,é,ì,È,è,Ü,¹,ñ[]BMODEM.INF ftf@fCf<,ì[]Ú[]x,É,Á,ç,Ä,í[]A[]uMODEM.INF ,ð[]C[]³,·,é[]v,ðŽQ[]Æ,μ,Ä,,¾,¾,ç[]B

MODEM.INF ,ðffjXf^f}fCfY,·,é,É,í

- 1 MODEM.INF ftf@fCf<,ìfofbfNfAfbfv fRfs[][,ð[]i[]-,μ,Ü,·[]B
 - 2 fZfLf...fŠfefB fzfXfg,ìfZfNfVf#f" ,Á[]A_on f}fNf[]," ,æ,Ñ_off f}fNf[],ì,·,x,Ä,ì' (speaker_on=M1 ,È,Ç) ,ð[]AŽg—p,·,éf,fff€,ìfZfNfVf#f" ,Á[]Ý'è,¾,è,Ä,ç,é'l,É'u,«Š·,ì,Ü,·[]B
 - 3 fZfLf...fŠfefB fzfXfg,ìfZfNfVf#f" ,Á[]A,·,x,Ä,ì COMMAND_INIT= []s,ð[]AŽg—p,·,éf,fff€,ìfZfNfVf#f" ,É[]Ý'è,¾,è,Ä,ç,é COMMAND_INIT= []s,É'u,«Š·,ì,Ü,·[]B
- fZfLf...fŠfefB fzfXfg,ìfZfNfVf#f" ,É,í[]AŽg—p,·,éf,fff€,ìfZfNfVf#f" ,Æ"·,¶[]",ì COMMAND_INIT []s,¾,È,·,é,ì,È,è,Ü,¹,ñ[]BfZfLf...fŠfefB fzfXfg,ìfZfNfVf#f" ,Á[]A,» ,ì'¼,ì[]s,ð•í[]X,μ,È,ç,Ä,,¾,¾,ç[]B
- '[] LOOP= []s,í[]A,Ç,ìf,fff€,É,à•K—v,È[]s,Æ,ç,α,í,·,Á,í ,è,Ü,¹,ñ[]B,½,¾,μ[]A•s— v,Á ,é,Æšm[]M,Á,« ,È,ç[]é[]#,í[]AŽc,μ,Ä,,ç,Ä,,¾,¾,ç[]B

fZfLf...fŠfefB fzfXfg,đfCf“fXfg□[f<,.é

MODEM.INF ,lfZfLf...fŠfefB fzfXfg,lfZfNfVf#f“ ,đfjfXf^f}fCfY,μ,½,ç□AfRf“fgf□□[f< fpfjf<,ì [flfbfgf□□[fN] ,đŽg,Á,Ä□AfZfLf...fŠfefB fzfXfg,Æf,fff€,đ RAS fT□[fo□[.ÉfCf“fXfg□[f<,μ,Ü,·□B

fZfLf...fŠfefB fffofCfX,đfCf“fXfg□[f<,.é,É,Í

- 1 fRf“fgf□□[f< fpfjf<,ì [flfbfgf□□[fN] fAfCfRf“ ,đf_fuf<fNfŠfbfN,μ,Ü,·□B
- 2 [fT□[frfX] f^fu,Å□A[Šf,□[fg fAfNfZfX fT□[frfX] ,đ'í'đ,μ□A[fvf□pfefB] ,đfNfŠfbfN,μ,Ü,·□B
- 3 [fŠf,□[fg fAfNfZfX fZfbfgfAfbfv] f_fCfAf□fO f{fbfNfX,Å□AfŠf,□[fg fAfNfZfX fT□[fo□[.Æf,fff€,ìŠÔ,É□Ú'± ,³,ê,Ä,ç,éfZfLf...fŠfefB fffofCfX,đ'í'đ,μ□A[±□s] ,đfNfŠfbfN,μ,Ü,·□B
fn□[fhfEfFfA ftf□□[□§CEä,aŠù'è,ì□Ý'è (fn□[fhfEfFfA ftf□□[□§CEä,a—LCEø) ,©,ç•İ□X,³,ê,Ä,ç,È,ç,± ,Æ,đŠm“F,μ,Ä,³,³,ç□B
- 4 [flfbfgf□□[fN] f_fCfAf□fO f{fbfNfX,ì [OK] ,đfNfŠfbfN,μ,Ü,·□B
- 5 [,Í,ç] ,đfNfŠfbfN,μ,ÄfRf“fsf...□[f^,đ□Ä<N“@,μ,Ü,·□B

fNf%oCfAf“fg,Áf^□[f~fif< f,□[fh,ðfAfNfefBfu,É,·,é

fŠf,□[fg fAfNfZfX f^□[f~fif<,ðŽg,æ,Æ□AfŠf,□[fg ft□[fU□[.Í□AfZfLf...fŠfefB
fffofCfX,É□³,μ,çfAfNfZfX“Ó□†,È,Ç,ÌfAfNfZfX□î•ñ,ð’—

□M,Á,«,Ü,·□BfAfNfZfX□î•ñ,²□³,μ,¯,ê,Í□A,»],Íft□[fU□[.ÍfŠf,□[fg fAfNfZfX ft□[fo□[.É□Ú’±,³,ê,Ü,·□B

f^□[f~fif< f,□[fh,É□‡,í,¹,ÄfNf%oCfAf“fg,ð€”ö,·,é,É,Í

1 f_fCf,,f<fAfbfv flfbfgf□□[fN,ì“d~b’ ,Á□A□Ú’±□æfGf“fgfŠ,ð’l’ð,μ,Ü,·□B

2 [,>,ì¹⁄₄] ,ðfNfŠfbfN,μ□A[fGf“fgfŠ,Æf,fff€,Ìfvf□fpfefB,ì•Ó□W] ,ðfNfŠfbfN,μ,Ü,·□B

3 [fXfNfŠfvgf] f^fu,Á□A[f^□[f~fif< fEfBf“fhfE,ðŠJ,] ,ð’l’ð,μ,Ü,·□B

4 [OK] ,ðfNfŠfbfN,μ,Ü,·□B

fŠf,□[fg fAfNfZfX ft□[fo□[.É□Ú’±,·,é,É,Í

1 f_fCf,,f<fAfbfv flfbfgf□□[fN,ì“d~b’ ,Á□Af^□[f~fif< f,□[fh—p,É□€”ö,μ,½fGf“fgfŠ,ð’l’ð,μ,Ü,·□B

2 [f_fCf,,f<] ,ðfNfŠfbfN,μ,Ü,·□B

%œ—É,É•\Ž!,³,ê,éŽwŽ!,É□],Á,Ä□Aft□[fU□[-¼,ÆfpfXf□□[fh,ð“ü—Í,μ□A[OK] ,ðfNfŠfbfN,μ,Ü,·□B

3 [f^□[f~fif<] ,²•\Ž!,³,ê,½,ç□AfZfLf...fŠfefB fzfXfg,É—v<□,³,ê,éfAfNfZfX□î•ñ,ð“ü—

Í,μ,Ü,·□B,½,Æ,ì,Í□ACEÁ□Ž~•É”Ó□†,ÆfZfLf...fŠfefB fj□[fh,É•\Ž!,³,ê,½”Ó□†,ð“ü—Í,·,é,æ,æ,É—
v<□,³,ê,½,è□Aft□[fU□[-¼,ÆfpfXf□□[fh,ð“ü—Í,·,é,æ,æ,É—v<□,³,ê,½,è,μ,Ü,·□B

4 fZfLf...fŠfefB fzfXfg,²”F□Ø,É□—CE÷,μ,½,±,Æ,ð’É’m,μ,Ä,«,½,ç□A,·,®,É [Š®—¹]

,ðfNfŠfbfN,μ,Ü,·□BZfLf...fŠfefB fzfXfg,©,ç,ì’É’m•ù—@,Í□AfZfLf...fŠfefB
fzfXfg,²,Æ,É^Ù,É,è,Ü,·□B,½,Æ,ì,Í□A“OK” ,Æ•\Ž!,³,ê,é□é□‡,à, ,é,Í□Afj□[f\
f<,²ŽŸ,ì□s,É□i,p,¾,¯,ì□é□‡,à, ,è,Ü,·□B

fŠf,□[fg fAfNfZfX ft□[fo□[.Á,ì”F□Ø,²ŠJŽn,³,ê,Ü,·□B

fCfWfXfgfŠ,đC³,·,é

fŠf, [fg fAfNfZfX fT [f rfX, đfT [fo [ÉfCf“fXfg [f<,·,é,Æ AfZfbf g fAfbfv fvf [fOf%of€,É,æ,è AfRemote Access fL [² Windows NT ,lfCfWfXfgfŠ,É’Ç%oÁ,³,è,Ü,· B Remote Access

fL [.,Æ,» ,lfTfufL [.,É, [AfŠf, [fg fAfNfZfX,É“Á—L,lfpf%of [f^,ŠÜ,Ü,è,Ü,· B

fŠf, [fg fAfNfZfX,lfZfbf g fAfbfv fvf [fOf%of€,Í Windows NT ,lfCfWfXfgfŠ,É Remote Access fL [.,đ’Ç %oÁ,μ,Ü,· B

^è”É,É AfŠf, [fg fAfNfZfX,Í RAS ,lfpf%of [f^,É“KØ,ÈŠù’è’l,đY’è,·,é,ì,Å A’É í, [C³,·,é•K— v,ª, ,è,Ü,¹,ñ BfVfXfef€,É,æ,Á,Ä, [A“Á’è,lfj [fY,É [f,í,¹,Ä Afpf%of [f^,đĀ•É,É² [®,Å,«,Ü,· B

,ç,,Å,©,lfpf%of [f^, [W [f,đC³,Ü,½,Í’Ç%oÁ,Å,«,Ü,· B,±

,é,ç,ìŠù’è, [Y’è,đ• [X,·,é,É, [AfCfWfXfgfŠ,ìŠY“—,·,é fL [.,đC³,Ü,½,Í’Ç%oÁ,μ,Ä,,¾,¾,ç B,±

,é,ç,lfL [.,đŠÜ, bfCfWfXfgfŠ fpfX, [AŠefpf%of [f^,đà-¾,·,é’O,ÉŽwŽl,μ,Ü,· B

fCfWfXfgfŠ,đ•òW,·,é,É,Í

1 [fXf^ [fg] f [fj... [l, [ftf@fCf<-¾,đŽw’è,μ,ÄŽÀ [s] ,đfNfŠfbfN,μ,Ü,· B

2 [-¾’O] f {fbfNfX,É [uregedt32 [v,Æ“ü—í,μ,Ü,· B

,±,lfRf}f“fh, [AfRf}f“fh fvf [f“fvfg,©,čŽÀ [s,·,é,±,Æ,à,Å,«,Ü,· B

fCfWfXfgfŠ,ÅfL [.,Éfpf%of [f^,đ’Ç%oÁ,·,é•û-@, [Ú [x,É,Å,ç,Ä, [A Windows NT fCfWfXfgfŠ

fGfffBf^,lf f“f%ofCf“ fwf<fv,đŽQ [Æ,μ,Ä,,¾,¾,ç B

RemoteAccess fpf%o[f^

,±,ê,ç,lfpf%o[f^,îŠù'è'l,íA,.,x,Ä,ì Windows NT ,l'€i,Å\•a,É<@"\,μ,Ü,·B

,±,ê,ç,lfpf%o[f^,íAŽŸ,ÉŽ!,.fCfWfXfgfŠ fpfX,É, ,è,Ü,·B

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\RemoteAccess\Parameters

AuthenticateRetries REG_DWORD

"í'íF 0 10

"F∅Žž,í∅%o,ìŽžs,ž,"s,μ,½∅ê∅±,É∅AŽ,"s,â<-,³,ê,é∅Á'â∅ÄŽžs%oñ∅",∅Ÿ'è,μ,Ü,·B
Šù'è'lF 2.

AuthenticateTime REG_DWORD

"í'íF 20 600 •b

ft∅[fU∅[,∅³í,É"∅∅,∅Žó,∅,È,∅,ê,î,È,ç,È,çŽžŠÓ,í∅äCÉA,∅A•b'P'É,ÁŸ'è,μ,Ü,·BfNf%oCfAf"fg,∅,±
,ìŽžŠÓ"à,É"∅∅∅∅f∅ZfX,∅Š@—¹,μ,É,∅,ê,íA,».,lft∅[fU∅[,í∅∅'f,³,ê,Ü,·B
Šù'è'lF 120 •b

AutoDisconnect REG_DWORD

"í'íF 0 1000 •a

fAfNfefBfu,Ä,È,ç∅Ú'±
,∅∅∅'f,³,ê,é,Ü,Ä,ìŽžŠÓ,∅Ÿ'è,μ,Ü,·BfAfNfefBfu,Ä,È,çŽžŠÓ,í∅Aftf∅fCf<,lfRfs∅∅[∅AfIfbfgf∅∅[fNŽ'CE¹,Ö,lf
AfNfZfX∅A,∅,æ,Ñ"dŽqf∅∅[f<,ì—Žó∅M,È,Ç∅ANetBIOS fZfbfVf∅∅",lff∅[f^"J'—,∅s,í,ê,Ä,ç
,È,çŽžŠÓ,É,æ,Ä,ÄCEV'a,³,ê,Ü,·BfNf%oCfAf"fg,∅ NetBIOS ff∅[f^fOf%o€
fAfVfŠfP∅[fVf∅∅",∅ŽÀ∅s't,í∅ê∅±,íA,±,lfpf%o[f^,∅ 0 •a,ÉŸ'è,Ä,«,Ü,·B,±,lfpf%o[f^,∅ 0
,ÉŸ'è,∅,é,Æ∅A**AutoDisconnect** ,∅fift,É,È,è,Ü,·B
Šù'è'lF 20 •a

CallbackTime REG_DWORD

"í'íF 2 12 •b

fR∅[f<fofbfN<@"\,∅Ÿ'è,³,ê,Ä,ç,é∅ê∅∅AfNf
%oCfAf"fg,∅fR∅[f<fofbfN,∅,é'∅,ÉfT∅[fo∅[,∅'∅<@,∅,éŽžŠÓ,∅Ÿ'è,μ,Ü,·BŠefNf%oCfAf"fg,í∅AfŠf,∅[fg
fAfNfZfX fT∅[fo∅[,É∅Ú'±,∅,é,Æ,«,É∅A'ÆŽ∅,lfR∅[f<fofbfNŽžŠÓ,ì'l,∅'É∅M,μ,Ü,·B,±,ì'l,í∅AfNf%oCfAf"fg
—p,ì Modem.inf ftf∅fCf<,É"ü,Ä,Ä,ç,Ü,·B,±,ì'l,∅'É∅M,³,ê,È,ç∅ê∅± (Ä,Ü,è∅AfNf
%oCfAf"fg,∅fR∅[f<fofbfNŽžŠÓ,ì'l,∅'É∅M,μ,É,ç∅ê∅±∅BfŠf,∅[fg fAfNfZfX Version 1.0 ,∅,æ,Ñ 1.1 ,lfNf
%oCfAf"fg,∅,±,ê,ÉŠY"—,μ,Ü,∅),í∅A**CallbackTime** fpf%o[f^,ì'l,∅Žg,í,ê,Ü,·B
Šù'è'lF 2 •b

EnableAudit REG_DWORD

"í'íF 0 1

fŠf,∅[fg fAfNfZfX,ìŠÄ∅, <@"\,∅fIf",É,È,Ä,Ä,ç,é,∅fift,É,È,Ä,Ä,ç,é,∅,∅"»•É,μ,Ü,·B,±,ì<@"\,∅
LCE∅,É,È,Ä,Ä,ç,é,Æ∅A,∅,∅,Ä,ìŠÄ∅,í Windows NT ,lfCfxf"fg f∅fO,É<L~^,³,ê,Ü,·B,±
,ê,ç,ìŠÄ∅,íAWindows NT ,lfCfxf"fg frf...∅[fA,Ä•Ž!,Ä,«,Ü,·B
Šù'è'lF 1 (—LCE∅)

NetbiosGatewayEnabled REG_DWORD

"í'íF 0 1

fT∅[fo∅[,∅ NetBIOS fQ∅[fgfEfffC,Æ"—,∅,æ,∅,É<@"\,³,¹,Ä∅AfNf%oCfAf"fg,∅ LAN ,ÉfAfNfZfX,Ä,«,é,æ,∅
,É,μ,Ü,·B—³CE∅,É,È,Ä,Ä,ç,é,Æ∅AfŠf,∅[fg fNf%oCfAf"fg,í∅AfŠf,∅[fg fAfNfZfX
fT∅[fo∅[∅ä,ìŽ'CE¹,É,μ,∅fAfNfZfX,Ä,«,Ü,¹,ñ∅Bf_fCf,,f<fCf" fT∅[fU∅[,í∅AfIfbfgf∅∅[fN,∅CE∅,é,±

,Æ,ª,Å,«,, □Aflfbfgf□□[fNŽ'Æ¹,ÉfAfNfZfX,Å,«,Ü,¹,ñ□B,±,lfpf%of□□[f^,ð'¼□Ú□C□³,·,é,±
,Æ,Í,Å,«,Ü,¹,ñ□B,±,lfpf%of□□[f^,ð□C□³,·,é,Æ,«,Í□ARAS fZfbfgfAfbfv,ðŽg,Á,Ä,,¾,³,ç□B,±,ê,Í□ARAS
fZfbfgfAfbfv,ª□A,±,lfpf%of□□[f^,ì•İ□XŽž,ÉfofCf“fh,à□C□³,·,é,©,ç,Å,·□B
Šù'è'İ□F 1 (—LÆø)

NetbiosGateway fpf%of[]f^

,±,ê,ç,lfpf%of[]f^,íAŽŸ,ÉŽ!,.fCEfWfXfgfŠ fpfX,É, ,è,Ü,·B
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\RemoteAccess\Parameters\NetbiosGateway

DisableMcastFwdWhenSessionTraffic REG_DWORD

"ííF 0 1

NetBIOS fZfbfVfj",lfgf%oftfBfbfN (,½,Æ,í,íAWindows NT fx[]fX,lfAfvfŠfP[]fVfj") ,ðAf}f<f'fLfffXfg
ff[]f^fOf%of€ (fT[]fo[] ffbfZ[]fW,È,Ç) ,æ,è,à-Dæ,³,è,é,æ,x,É,µ,Ü,·B,Â,Ü,èAf}f<f'fLfffXfg
ff[]f^fOf%of€,íAfZfbfVfj" fgf%oftfBfbfN,ª,È,ç[]é[]±,É,¾,~"J'—,³,è,Ü,·Bf}f<f'fLfffXfg ff[]f^fOf%of€
,É'È'¶,·,éfAfvfŠfP[]fVfj",ðŽg,í,È,ç[]é[]±,íA,±,lfpf%of[]f^,ð-LCEø,É,µ,Ä,·,ç,Ä,,¾,³,çB
Šù'è'íF 1 (-LCEø)

EnableBroadcast REG_DWORD

"ííF 0 1

fuf[]fhfLfffXfg ff[]f^fOf%of€,ªfŠf,[]fg fRf"fsf...[]f^,É"J'—,³,è,é,©,Ç,x,©,ð"»•É,µ,Ü,·B'½,-
,ìè±[]Afuf[]fhfLfffXfg ff[]f^fOf%of€,í-LCEø,Â,í,È,-
[]A'á'-fŠf"fn[]ä,Â,í'N^æ·[],ð[]A"i,µ,·,·,Ü,·Bfuf[]fhfLfffXfg ff[]f^fOf%of€
,É'È'¶,·,éfAfvfŠfP[]fVfj",ðŽg,í,È,ç[]é[]±,íA,±,lfpf%of[]f^,ð-³CEø,É,µ,Ä,·,ç,Ä,,¾,³,çB
Šù'è'íF 0 (-³CEø)

MultiCastForwardRate ,ì€ ,àŽQ[]Æ,µ,Ä,,¾,³,çB

EnableNetbiosSessionsAuditing REG_DWORD

"ííF 0 1

fŠf,[]fg fNf%ofCfAf"fg,Æ Windows NT fT[]fo[][ŠÔ,Â]s,í,è,é NetBIOS fZfbfVfj",ìŠm—
š,ÉŠÖ,µ,ÄAfŠf,[]fg fAfNfZfX,ìŠÄ, <@"\,ð-LCEø,Ü,½,í-³CEø,É,µ,Ü,·B,±,lfpf%of[]f^,ð-
LCEø,É,·,é,Æ[]AŠÇ—[]ŽÖ,í LAN []ä,ÁfAfNfZfX,³,è,é NetBIOS Ž'CE¹,ð'Ç[]Ö,µ,â,·,è,è,Ü,·B
Šù'è'íF 0 (-³CEø)

MaxBcastDgBuffered REG_DWORD

"ííF 16 255

fNf%ofCfAf"fg,lfQ[]fgfEfc,É,æ,èofbftf@,³,è,éfuf[]fhfLfffXfg ff[]f^fOf%of€
,ì[]",ð[]Ý'è,µ,Ü,·Bf}f<f'fLfffXfg ff[]f^fOf%of€,Ü,½,ífuf[]fhfLfffXfg ff[]f^fOf%of€
,ð'È,µ,Ä[]lí'í,É'É[]M,ð[]s,xfAfvfŠfP[]fVfj",ðŽg,x[]é[]±,íAfŠf,[]fg fAfNfZfX fT[]fo[][,ª,·,·,·,Ä,lf[]f^fOf
%of€,ðŠmŽÄ,É"z[]M,Ä,« ,é,æ,x,É[]A,±,lfpf%of[]f^,ì'í,ð'ä,«,,µ,Ä,,¾,³,çB
Šù'è'íF 32.

MaxDgBufferedPerGroupName REG_DWORD

"ííF 1 255

fOf[]fV-¼,²,Æ,Éfobftf@,³,è,éff[]f^fOf%of€,ì[]",ð[]Ý'è,µ,Ü,·B,±,ì'í,ð'ä,«,,·,é,Æ[]AfOf[]fV-
¼,²,Æ,Éfobftf@,³,è,éff[]f^fOf%of€,ì[]",ª[],ì,·,ª[]A,æ,è'½,,ì%¼'zf[]f,š,ð[]Á"i,·,é,±,Æ,É,È,è,Ü,·B
Šù'è'íF 10

MaxDynMem REG_DWORD

"ííF 131072 4294967295

ŠefŠf,[]fg fNf%ofCfAf"fg,ì NetBIOS fZfbfVfj" ff[]f^,lfobftf@,ÉŽg,í,è,é%¼'zf[]f,š,ì'S—e—
È,ð[]Ý'è,µ,Ü,·B

'[] fŠf,[]fg fAfNfZfX fT[]fo[][,íA'á'-%ñü,Æ LAN ,Æ,ìŠÔ,lfQ[]fgfEfc,È,ì,Â[]A,·-%ñü (LAN)

, ©, ç' ... M, μ, ½ f f [f ^ , í □ A ' á ' - % ñ □ ü (" ñ " ~ S ú % ñ □ ü) , É "] ' - , ³ , è , é ' O , É □ A , » , í f □ f , f Š , É Š i " [, ³ , è , Ü , (f o f b f t f @ , É " ü , è , ç , è , Ü ,) □ B

f Š f , □ [f g f A f N f Z f X f T □ [f o □ [, í □ A f v f X f e f € , ì • " - □ f □ f , f Š , Ì Ž g - p - Ê , ð □ Å □ - , É - } , ì , é , ½ , ß □ A f y □ [f W , Ì □ Å □ - □ W □ # (f N f % o f C f A f " f g , ² , Æ , É - ñ 64 K) , ¾ , - , ð f □ f b f N , μ □ A f f □ [f ^ , Ì Ž c , è , Ì • " • a , ð % o ¼ ' z f □ f , f Š (**MaxDynMem** ^ É " à) , É f o f b f t f @ , μ , Ü , □ B

, μ , ½ , ² , Á , Ä □ A f n □ [f h f f f B f X f N □ ä , É Pagefile.Sys , ð Š g ' £ , Å , « , é , ¾ , - , Ì - e - Ê , ² , , è , Ì □ A , ± , í f p f % o f □ □ [f ^ , Ì ' , ð • K - v , É % o ž , ¶ , Å ' á , « , , Å , « , , Ü , □ B

f A f v f Š f P □ [f v f # " , ² LAN (□ , ' -) , Ì ' - □ M ' x , Æ " ñ " ~ S ú (' á ' -) , Ì Ž ó □ M ' x , ð C E " , É , é □ é □ # □ A , " , æ , Ñ ' - □ M ' x , ² - □ M , , é f f □ [f ^ , ² ½ , , - , Ä f Š f , □ [f g f A f N f Z f X f T □ [f o □ [, ² **MaxDynMem** , Ä f o f b f t f @ , É " ü , è , ç , è , È , ç □ é □ # , í □ A - â ' è , ² □ ¶ , ¶ , é , ± , Æ , ² , , è , Ü , □ B f Š f , □ [f g f A f N f Z f X f T □ [f o □ [, í □ A ' ... □ M f f □ [f ^ , ð " ü , è , ç , è , é ' ö " x , í f o f b f t f @ - e - Ê , ² ¾ , ç , è , è , Ü , Å □ A f Z f b f v f # " □ ä , Å Ncb.Receive , ð " - □ M , ¹ , , É □ ANetBIOS , í f t f □ □ [□ S C ä , ð " K - p , μ , æ , x , Æ , μ , Ü , □ B , μ , ½ , ² , Á , Ä □ A , ± , Ì Ž í , í f A f v f Š f P □ [f v f # " , ð Ž g , x □ é □ # , í □ A f Š f , □ [f g f N f % o f C f A f " f g , É ' á ' - , Ä f Š f " f N , , é , æ , x , È Ž ž Š Ö , ² , © , © , é □ é □ # , Å , à , , x , Ä , í f f □ [f ^ , ² " ' - , ³ , è , é , Ì , ð ' Ö , Å , æ , x , É □ A , » , í f A f v f Š f P □ [f v f # " f T □ [f o □ [□ ä , Ì NetBIOS SEND/RECEIVE , í f ^ f C f € f A f E f g , ð ' á , « , , μ , È , - , è , Í , È , è , Ü , ¹ , ñ □ B

Šù'è'í□F 655350.

MaxNames REG_DWORD

"í'í□F 1 □` 255

ŠefNf%ofCfAf"fg, ² Ž g - p , Å , « , é ^ è ^ Ó , Ì NetBIOS - ¼ , Ì □ " , ð □ Y ' è , μ , Ü , □ B NetBIOS - ¼ , í □ A f N f % o f C f A f " f g ' S ' í , Å □ # C e v 255 C E Ä , Ü , Å , Å , □ B

Šù'è'í□F 255

' □ Windows NT , ð Ž Ä □ s , μ , Ä , ç , é f Š f , □ [f g f N f % o f C f A f " f g , Å , í □ A , » , è , ¼ , è 7 C E Ä , Ü , ½ , í 8 C E Ä , Ì NetBIOS - ¼ , ² • K - v , È □ é □ # , ² , è , Ü , □ B , ± , è , ç , í f R f " f s f ... □ [f ^ , É ' í % o ž , , é , É , í □ A **MaxNames** , ² ^ È □ ä , É □ Y ' è , ³ , è , Å , ç , é , ± , Æ , ð Š m " F , μ , Ä , , ¾ , ³ , ç □ B Windows NT f N f % o f C f A f " f g , © , ç f o □ [f W f # " 1.1 ^ É ' O , í f Š f , □ [f g f A f N f Z f X , ð Ž Ä □ s , , é f T □ [f o □ [, É f _ f C f , f _ f C f " , , é □ é □ # , í □ A , ± , í f p f % o f □ □ [f ^ , ð 8 ^ È □ ä , É □ Y ' è , μ , Ä , , ¾ , ³ , ç □ B

MaxSessions REG_DWORD

"í'í□F 1 □` 255

ŠefNf%ofCfAf"fg, ² " Ž ž , É < N " @ , Å , « , é NetBIOS f Z f b f v f # " , Ì □ Å ' á □ " , ð □ Y ' è , μ , Ü , □ B NetBIOS f Z f b f v f # " , í □ A f N f % o f C f A f " f g ' S ' í , Å □ # C e v 255 , Ü , Å " Ž ž , É < N " @ , Å , « , Ü , □ B • í □ " , í N f % o f C f A f " f g , ð " Ž ž , É □ Ú ' ± , μ □ A , » , è , ¼ , è 4 , Å , Ü , ½ , í 5 , Å , í f Z f b f v f # " , ð Ž Ä □ s , ¹ , é □ é □ # , í □ A □ # C e v f Z f b f v f # " □ " , ² 255 , ð ' ' , Ì , È , ç , æ , x , É □ A , ± , í f p f % o f □ □ [f ^ , Ì ' , ð □ - , ³ , μ , Ü , □ B

Šù'è'í□F 255.

MultiCastForwardRate REG_DWORD

"í'í□F -1 (-³ C E Ø) □ A 0 □` 32,767 • b

, , x , Ä , í f Š f , □ [f g f R f " f s f ... □ [f ^ , Ö , í f O f < □ [f v - ¼ f f □ [f ^ f O f % o f € , í f } f < f l f f f X f g % o » , ð □ S C E ä , μ , Ü , □ B f O f < □ [f v - ¼ , É Š Ö , μ , Ä ' - □ M , ³ , è , é f f □ [f ^ f O f % o f € , í □ A , ± , í f p f % o f □ □ [f ^ , Å Ž w ' è , μ , ½ Š Ö Š u , Å "] ' - , ³ , è , é , ± , Æ , É , æ , è □ A f t f B f < f ^ , ² , © , - , ç , è , Ü , □ B

Šù'è'í□F 5

' , ð - 1 , É □ Y ' è , , é , Æ □ A "] ' - < @ " \ , ² - ³ C E Ø , É , È , è , Ü , □ B ' Ì , ð 0 , É □ Y ' è , , é , Æ □ A f O f < □ [f v - ¼ f f □ [f ^ f O f % o f € , Ì " z □ M , ² • Ü □ Ø , ³ , è , Ü , □ B ' Ì , ð n , É □ Y ' è , , é , Æ □ A f f □ [f ^ f O f % o f € , í n • b , ² , Æ , É "] ' - , ³ , è , Ü , □ B , ± , Ì □ é □ # □ A 1 □ ... n □ ... 32,767 , Å , □ B

EnableBroadcast f p f % o f □ □ [f ^ , ð 0 , É □ Y ' è , , é , Æ □ A **MultiCastForwardRate** f p f

MultiCastForwardRate, EnableBroadcast

REG_DWORD

NumRecvQueryIndications REG_DWORD

REG_DWORD

RcvDgSubmittedPerGroupName REG_DWORD

REG_DWORD

RemoteListen REG_DWORD

REG_DWORD

Index	Name	Description
0	RemoteListen	RemoteListen
1	Server	Server

—p,Å,«,é,æ,»	Ç) ,ð LAN
,É,μ,Û,·□B	fT□[fU□[,É'í,μ,Ä~—p %oÅ"\ ,É,Å,«,Û,·□BMessenge r fT□[fX,ðŽÀ□s,·,éfŠf,□ [fg fNf %ofCfAf"fg,í□ALAN fT□[fU□[□AfvfŠf" f^ ,É, Ç,©,çf□fbfZ□[fW,ðŽó□ M,Å,«,Û,·□B
2 ,·,×,Ä,ìfŠf,□[f	,±,ì□Ý'è,É,æ,è□AfNf
g fNf	%ofCfAf"fg□ã,ÅŽÀ□s't
%ofCfAf"fg,ì	,ì NetBIOS
NetBIOS -	fAfvfŠfP□[fVf†f" ,í□ALA
¼,É,Ä,ç	N
,Ä□ANCB.LIST	fAfvfŠfP□[fVf†f" ,É,æ,è
EN ,ð—	ŽÀ□s,³,è,½ NCB.CALL
LCEø,É,μ,Û,·□	fRf}f"fh,É
B	%ož"š,Å,«,é,æ,» ,É,È,è,Û,·□B

'□ **RemoteListen** fpf%of□□[f^ ,í□AŠù'è'l,ì 1 (f□fbfZ□[fW) ,É□Ý'è,·,é,ì,²□Á'P,ì•û-@,Å,·□B

fŠf,□[fg fNf%ofCfAf"fg□ã,Å NCB.LISTEN <@"\,ð—LCEø,É,·,é,Æ□AfVfXfef€ fŠf\
□[fX,²'å•□,É□Á"i,³,è,é,±,Æ,², ,é,ì,Å□A,±,ì<@"\,ð—LCEø,É,·,é,ì,í,"Š©,β,Å,«,Û,¹,ñ□B**RemoteListen**
fpf%of□□[f^ ,ð 2 ,É□Ý'è,·,é,Æ□AfŠf,□[fg fAfNfZfX,ìfŠf,□[fg fAfNfZfX fNf%ofCfAf"fg,ì,·,×,Ä,ì
NetBIOS -¼,É NCB.LISTEN ,ð'É'm,μ,Û,·□B•½<í"l,È Windows NT fNf%ofCfAf"fg,É,í,·,æ,» 7
CEÅ,Û,½,í 8 CEÅ,ì NetBIOS -¼,²Š,,è"—,Ä,ç,è,Ä,ç,é,±,Æ,ð□l,ì,é,Æ□ANCB.LISTEN ,É,Ä,ç
,Ä'É'm,³,è,é NetBIOS -¼,ì□±CEv□",í 7 ,Û,½,í 8 □~ 256 (fŠf,□[fg fAfNfZfX fT□[fo□["-,½,è,ì□Á'åfNf
%ofCfAf"fg□") ,Æ,È,è,Û,·□B

SizWorkBufs REG_DWORD

"í'í□F 1024 □` 65536

□i<Æfobftf@,ìTfCfY,ð□Ý'è,μ,Û,·□BŠù'è'l,í□AfT□[fo□[f□fbfZ□[fW fuf□fbfN (SMB)
fvf□fgfRf<,É□±,í,¹,Ä□Ä"K%o»,³,è,Ä,ç,Û,·□BSMB fvf□fgfRf<,í□AfNf%ofCfAf"fg,Æ Windows NT Server
,ðŽÀ□s,·,éfT□[fo□[,ìŠÔ,ìfvf□fgfRf<,Å,·□B
Šù'è'l□F 4500

IP fpf%of[]f^

, ±, ê, ç, ìfpf%of[]f^, í[]AŽŸ, ÉŽì, ÿfWfXfgfŠ fpx, É, , è, Ù, ·[]B

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\RemoteAccess\Parameters\IP

WINNameServer REG_SZ

'I[]F IP fAfhf[]fX

RAS fT[]fo[][, á'® , ·, é WINS fT[]fo[][, É, æ, é RAS fNf%ofCfAf"fg, Ö, ì IP fAfhf[]fX, ìŽ© "® "I, ÈŠ,,, è"-, Ä, ð-
³[]Eø, É, ·, é, É, í[]ARAS fT[]fo[][, ìf[]fWfXfgfŠ, Å[]A, ±, ìfpf%of[]f^, ð·ì[]X, μ, Ù, ·[]B

, ±, ìfpf%of[]f^, ÿf[]fWfXfgfŠ, É·\Žì, ³, ê, é, ì, í[]ARAS fT[]fo[][, Ö, ì[]Ú'±, ÿfAfnfefBfu, È, Æ, <, ¾, ¯, Å, ·[]B

WINNameServerBackup REG_SZ

'I[]F IP fAfhf[]fX

RAS fT[]fo[][, á'® , ·, é ofbfNfAfbfv WINS fT[]fo[][, É, æ, é RAS fNf%ofCfAf"fg, Ö, ì IP fAfhf[]fX, ìŽ© "® "I, ÈŠ,,, è"-, Ä, ð-
³[]Eø, É, ·, é, É, í[]A, ±, ìfpf%of[]f^, ð RAS fT[]fo[][, ìf[]fWfXfgfŠ, É'Ç
%oÁ, μ, Ù, ·[]B

, ±, ìfpf%of[]f^, ÿf[]fWfXfgfŠ, É·\Žì, ³, ê, é, ì, í[]ARAS fT[]fo[][, Ö, ì[]Ú'±, ÿfAfnfefBfu, È, Æ, <, ¾, ¯, Å, ·[]B

DNSNameServers REG_MULTI_SZ

'I[]F IP fAfhf[]fX

RAS fT[]fo[][, á'® , ·, é DNS fT[]fo[][, É, æ, é RAS fNf%ofCfAf"fg, Ö, ì IP fAfhf[]fX, ìŽ© "® "I, ÈŠ,,, è"-, Ä, ð-
³[]Eø, É, ·, é, É, í[]A, ±, ìfpf%of[]f^, ð RAS fT[]fo[][, ìf[]fWfXfgfŠ, É'Ç%oÁ, μ, Ù, ·[]B

, ±, ìfpf%of[]f^, ÿf[]fWfXfgfŠ, É·\Žì, ³, ê, é, ì, í[]ARAS fT[]fo[][, Ö, ì[]Ú'±, ÿfAfnfefBfu, È, Æ, <, ¾, ¯, Å, ·[]B

AsyncMac fpf%of[]f^

,±,ê,ç,lfpf%of[]f^,íAZÿ,ÉŽ!,.fCFWfXfgfŠ fpfX,É, ,è,Ü,·B
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\AsyncMac\Parameters

MaxFrameSize **REG_DWORD**

"í'í[]F 576 []` 1514

Å'âftfCF[]f€ ftfcfY,ðCE^'è,μ,Ü,·BfmfCfY,ð"º,xfŠf"fN,É,í[]-,³,çftfCF[]f€,ðŽg,Á,Ä,-
,¾,³,ç[]B[]Ý'è,ð[]-,³,,.é,Æ[]AftfCF[]f€,²,Æ,É'—[]M,³,ê,éff[]f^[]",ª[].,È,,è[]AfpftfH[]f}f"X,ª'á
%ºº,μ,Ü,·B^È'O,lf[]fWf#f",lfŠf,[]fg fAfNfZfX ft[]fxfX,É,Ä,ç,Ä,í[]A,±,lfpf%of[]f^,ð'í[]X,μ,È,ç,Á,-
,¾,³,ç[]B,±,ì'l,í[]Aft[]fo[][,Æ Windows NT ,lfNf%ofCfAf"fg,Æ,ìŠÔ,ÅflfSfVfG[]fVf#f",ª[]s,í,è,Ü,·B
Šù'è'í[]F 1514.

TimeoutBase **REG_DWORD**

"í'í[]F 500 []` 1000

Ú'±,ª[]Ø'f,³,ê,é'O,É[]ANetBIOS fQ[]fjgfEjFfC[]ã,ÅCEº%ºB,.,éŽžŠÔ,ðCE^'è,μ,Ü,·BNetBIOS
fQ[]fjgfEjFfC,ìŽg—p,Å^ù[]í,É'½,,lf^fCf€fAfEfg fGf%º[][,ª[]¶,¶,éèè[]#,É (100KB ,ìŽó[]M,Å 10
%ºñ^È[]ã,lf^fCf€fAfEfg)[]AZg—p,μ,Ä,ç,éRf"fsf...[]f^,ÉfZfLf...fŠfefB fffofCfX,ª, ,é,©[]A,Ü,½,lf,fff€
,lfn[]fhfEjFfA^³[]k,Ü,½,lfGf%º[][]\$CEä<@"\,ª—LCEø,É,É,Ä,Ä,ç,é,Æ,«,í[]A**TimeoutBase** ,ì'l,ð 500 ,©,ç
1000 ,É'[],â,μ,Ü,·B
TimeoutBase ,ð 1000 ,É'[],â,.,Æ[]A,²,,Ü,ê,Éflfbfgf[]fN,ì<@"\,ª^ù[]í,È"®[]ì,ð,.,é,±
,Æ,ª, ,è,Ü,·B,½,Æ,ì,í[]A1 %ºñ"ü—í,μ,½flfbfgf[]fN,lfRf}f"fh,ð[]A,³,ç,É,à,ª 1 %ºñ^È[]ã"ü—
í,μ,È,¯,é,î,È,ç,È,©,Á,½,è[]A,Ü,½,í<@"\,ªžüšú"l,É'x,,É,é,±,Æ,ª, ,è,Ü,·B
Šù'è'í[]F 500

NdisWan fpf%of[]f^

,±,lfpf%of[]f^,íAŽŸ,ÉŽ,·fCFWfXfgfŠ fpfX,É, ,è,Ü,·B

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NdisWan\Parameters

NetworkAddress="xxxxxx" REG_SZ

'lF flfbfgf[]fN fAfhfCFX

6 fofCfg,ì IEEE fAfhfCFX,ìA%o,ì 4 fofCfg,ðÄŠ,,è“-,Ä,·,é,É,íA,±,lfpf%of[]f^,ð'Ç

%oÁ,μ,Ü,·B,½,Æ,ì,íAfhfCFX,ð "03-1F-2C-81-92-34" ,ÉY'è,·,é,ÆA%o,ì 4

fofCfg,¾,~,ªY'è,³,è,Ü,·BÁä,ì 2 fofCfg,íA[]fg,ðêêÓ,ÉŽ·Ê,·,é,½,ß,É—\-ñ,³,è,Ä,ç,Ü,·B,±,lfpf

%of[]f^,íA[]f^CE^,ª REG_SZ ,ì **NdisWanParameters** fl[],ÉY'è,μ,Ä,,¾,¾,çB

NwlnkRip fpf%of[]f^

,±,lfpf%of[]f^,íAŽŸ,ÉŽ!,fCefWfXfgfŠ fpfX,É, ,è,Ü,·B

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NwlnkRip\Parameters

NetbiosRouting REG_DWORD

"í^íF 0A2A4A,Ü,½,í 6

LAN ,Æ,ìŠÔ,ì IPX NetBIOS fuf[]fLfffXfg fpfPfbfg,ì"j'—,ð\$CEä,μ,Ü,·BRAS fT[]fo[],íARAS fNf
%ofCfAf"fg,Æf[]fj< flfbfgf[]fN,ìŠÔ,Å NetBIOS fuf[]fLfffXfg fpfPfbfg (IPX f^fCfv 20) ,ð"j'—
,Å,«,Ü,·B

,±,lfpf%of[]f^,ð 2 ,ÉŸ'è,·,é,ÆAfŠf,[]fg fNf%ofCfAf"fg,©,ç LAN ,Ö,ì NetBIOS fuf[]fLfffXfg
fpfPfbfg,ì"j'—,ª—LCEø,É,È,è,Ü,·B

4 ,ÉŸ'è,·,é,ÆALAN ,©,çŠf,[]fg fNf%ofCfAf"fg,Ö,ì NetBIOS fuf[]fLfffXfg fpfPfbfg,ì"j'—,ª—
LCEø,É,È,è,Ü,·B

6 ,ÉŸ'è,·,é,ÆAfŠf,[]fg fNf%ofCfAf"fg,Æ LAN ,ìŠÔ,Å—¼•ûCEü,ì NetBIOS fpfPfbfg,ì"j'—,ª—
LCEø,É,È,è,Ü,·B

IPX NetBIOS fAfvfŠfP[]fVf#f",)[]\—,É,æ,Á,Ä,íA**DisableDialinNetbios** fCefWfXfgfŠ
fGf"fgfŠ,ðŸ'è,·,é•K—v,ª, ,éè[]#,à, ,è,Ü,·B[]Ú×,É,Ä,ç,Ä,íA[]uNwlnklpx fpf
%of[]f^[]v,ðŽQ[]Æ,μ,Ä,,¾,¾,ç[]B

Šù'è'íF 2

NwlnkIpx fpf%o[f^

,±,lfpf%o[f^,íAŽŸ,ÉŽ, fCfWfXfgfŠ fpfX,É, ,è,Ü,·B

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NwlnkIpx\Parameters

DisableDialinNetbios

REG_DWORD

"í^íF 0 3

fŠf, [fg RAS fNf%o[CfAf"fg, ",æ,Ñ LAN (RAS IPX f^f^ [f^ [,đŽg,Á,Ä) ,ÆAIPX NetBIOS fAfvfŠfP [fVf#f"
("à•", lfjfbfg) ,đŽÀs, ,é RAS fT [fo [,Æ,İŠÖ, İ IPX f^fCfv 20 fpfPfbfg, İ"J'—, đ [CEä, μ, Ü, ·B, ±, lfpf
%o[f^ , íARAS fT [fo [[ä, lf_fCf, ,f^fCf" %oñü, ¾, , đ [CEä, μ, Ü, ·B

,±, lfpf%o[f^ ,đ 0 ,ÉŸ'è, ,é,ÆAIPX f^fCfv 20 fpfPfbfg, íARAS fT [fo [, ©, çŠf, [fg fNf
%o[CfAf"fg, ÉA, ",æ,ÑfŠf, [fg fNf%o[CfAf"fg, ©, ç RAS fT [fo [,Éfuf [fhfLfffXfg, ¾, è, Ü, ·B, ±
, İê#AIPX f^fCfv 20 fpfPfbfg, íALAN ä, Åfuf [fhfLfffXfg, ,é, ½, İ IPX f^f^ [(,±
, lf^ [f^ [, íAIPX NetBIOS fpfPfbfg, đ"J'—, ,é,æ,α,É [v—, ¾, è, Ä, ç, éê#) ,đ
%oî, μ, Åfuf [fhfLfffXfg, ¾, è, Ü, ·B

1 (Šù'è'l) ,ÉŸ'è, ,é,ÆAIPX f^fCfv 20 fpfPfbfg, íAfŠf, [fg fNf%o[CfAf"fg, ©, ç"à•", lfjfbfg, ",æ,Ñ RAS
IPX f^f^ [,Éfuf [fhfLfffXfg, ¾, è, é, ¾, , Ä, ·B, ±, İŸ'è, íA"à•", lfjfbfg, ©, çŠf, [fg fNf
%o[CfAf"fg, Ö, lfuf [fhfLfffXfg, đ-³CEø, É, μ, Ü, ·B

2 ,ÉŸ'è, ,é,ÆAIPX f^fCfv 20 fpfPfbfg, íA"à•", lfjfbfg, ©, çŠf, [fg fNf
%o[CfAf"fg, Éfuf [fhfLfffXfg, ¾, è, Ü, ·B

3 ,ÉŸ'è, ,é,ÆAIPX f^fCfv 20 fpfPfbfg, lfuf [fhfLfffXfg, íA-³CEø, É, È, è, Ü, ·B

Žg—p, μ, Ä, ç, é IPX NetBIOS fAfvfŠfP [fVf#f" , İ [v—, É,æ,Á,Ä, íA**NetbiosRouting** fCfWfXfgfŠ
fGf"fgfŠ, đŸ'è, ,é•K—v, a, ,éê#, à, ,è, Ü, ·B [Ú×, É, Ä, ç, Ä, íA [uNwlnkRip fpf%o[f^
[v, đŽQ [Æ, μ, Ä, ¾, ¾, ç [B

Šù'è'l [F 1

RasMan fpf%of[]f^

,±,ê,ç,lfpf%of[]f^,íAŽŸ,ÉŽ!,fCFWfXfgfŠ fpfX,É, ,è,Ü,·B

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\RasMan\Parameters

NumberOfRings REG_DWORD

"ííF 1 20 (,±,ì"ííŠO,ìl,ðŽw'è,·,é,ÆAŠù'è'l,žg,í,è,Ü,·)

RAS ,æĀ,Ńo,μ,É%ž"š,·,é,Ü,Ā,É·,f,fff€,©,ç,ì RING f[]bfZ[]fW,ì%ň" ,ðŽw'è,μ,Ü,·B,±,lfpf
%of[]f^,íAUNIMODEM fffofCfX,Ā,ì,Ÿ<@"\,μ,Ü,·B

Šù'è'íF 1

Logging REG_DWORD

"ííF 0 1

fRf}f"fh f,[]fh,Ās,í,è,évfšfAf< f[]fg,©,çvfšfAf< f[]fg,ÉÚ'±,μ,½ffofCfX,Ö,ì,·,x,Ā,ì'ÉM,É,Ā,ç
,Ā,lf[]fO,ðŽú[]W,·,é,æ,πŸ'è,μ,Ü,·B,±,lfpf%of[]f^,íAfVfšfAf< fffofCfX,ÉŠÖ,·,é-â'è,ì%ðĀ^,Æ
Modem.Inf ftf@fCf<,Ü,½,Í Pad.Inf ftf@fCf<,É'Ç%Ā,μ,½V,μ,çfGf"fgfŠ,ðfefXfg,·,é,ì,É·Ö-~ ,Ā,·B

,ç,,Ā,©,ìî•ñ,í'óü%Ā"\,È•Ÿš,Ā,í,È,ç,ì,ĀA•Ÿš[]o-í,Æ 16 []o-í,ì-¼•û,ð•Ž!,·,é,±
,Æ,â,Ā,«,éfefLfxfg fGfffBf^,ĀADevice.log ftf@fCf<,ð•Ž!,·,é,±,Æ,ð, "Š©,β,μ,Ü,·BDevice.log
ftf@fCf<,É,íAŠe[]s--,ÉfLfffšfbfW fšf^[]f", " ,æ,Ńf%ofCf" ftfB[]fh,à, ,è,Ü,·BfLfffšfbfW
fšf^[]f", " ,æ,Ńf%ofCf" ftfB[]fh,íADevice.log ftf@fCf<,ð[]- , ,évf[]Of%of€,â'Ç
%Ā,μ,½,à,ì,Ā, ,èAfffofCfX,Æ,ìŠÖ,Ā[]s,í,è,½'ÉM,ìî•ñ,ð•\,μ,Ā,ç,é,í, ,Ā,í, ,è,Ü,¹,ñB

,±,lfpf%of[]f^,ð 1 ,ÉŸ'è,·,é,ÆAfVfšfAf< f[]fg,©,çvfšfAf< f[]fg,ÉÚ'±
,μ,½ffofCfX,Ö,ì'ÉM,lf[]fO,âsystemrootsystem32rasdevice.log ftf@fCf<,ÉŽú[]W,³,è,Ü,·B

f[]fO,ìŽú[]W,íAfšf,[]fg fffofCfX,Ö,ìÚ'±,â-CE÷,μAfff[]f^,ì" ' - ,â[]-¹,μ,ĀÚ'±
,â[]Ø'f,³,è,½Āă[]A'êŽž'âž~ ,³,è,Ü,·Bf[]fO,ìŽú[]W,íV,μ,çÚ'±,âŠm-š,³,è,é,Æ,«,É[]ĀšJ,³,è[]Aftf@fCf<
ftfCfY,â, " ,æ,» 100K ,ð' , , ,é,Ü,Ā Device.log ftf@fCf<,É'Ç%Ā,³,è,Ü,·Bf[]fO,lf[]fO,lf[]fO,³ 100K
,ð' , , ,é,ÆADevice.log ftf@fCf<,lf[]fO,âÁž,³,è,½Āă[]A[]f[]fO,ìŽú[]W,âĀšJ,³,è,Ü,·BDevice.log
ftf@fCf<,lf[]fO,íA,·,x,Ā,ì RAS ,ì[]-v'f,ì'âž~Āă[]A'âž~,μ,½ RAS ,ì[]-v'f,ì,ç
, , ,è,©,â<N" @ , , ,é,Æ,«,É,à[]Áž,³,è,Ü,·B

Šù'è'íF 0

PPP fpf%of[]f^

,±,ê,ç,lfpf%of[]f^,í[]AZÿ,ÉŽ!,.fçfWfXfgfŠ fpfX,É, ,è,Ü,·[]B
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\RasMan\PPP

MaxTerminate REG_DWORD

"í[]F 0 []`-³[]\$CEÀ
fsfA,ª%ž"š,·,é,±,Æ,ª,Å,«,È,ç,Æ%¼'è,·,é'O,É[]ATerminate-Ack ,ìžó[]M,È,μ,É'—[]M,³,ê,é Terminate-Request fpfPfbfg,ì[]",ð[]Ý'è,μ,Ü,·[]B
Šù'è'[]F 2

MaxConfigure REG_DWORD

"í[]F 0 []`-³[]\$CEÀ
fsfA,ª%ž"š,·,é,±,Æ,ª,Å,«,È,ç,Æ%¼'è,·,é'O,É[]A—LCEø,È Configure-Ack[]AConfigure-Nak[]A,Ü,½,Í Configure-Reject ,ìžó[]M,È,μ,É'—[]M,³,ê,é Configure-Request fpfPfbfg,ì[]",ð[]Ý'è,μ,Ü,·[]B
Šù'è'[]F 10

MaxFailure REG_DWORD

"í[]F 0 []`-³[]\$CEÀ
[][]-,ªŽù'©,μ,Å,ç,È,ç,Æ%¼'è,·,é'O,É[]AConfigure-Ack ,ì'—[]M,È,μ,É'—[]M,³,ê,é Configure-Nak fpfPfbfg,ì[]",ð[]Ý'è,μ,Ü,·[]B
Šù'è'[]F 10

MaxReject REG_DWORD

"í[]F 0 []`-³[]\$CEÀ
PPP flfSfvfG[]lfvf#f",ªŽù'©,μ,È,ç,Æ%¼'è,·,é'O,É'—[]M,³,ê,é Config-Rejects ,ì[]",ð[]Ý'è,μ,Ü,·[]B
Šù'è'[]F 5

RestartTimer REG_DWORD

"í[]F 0 []`-³[]\$CEÀ
Configure-Request fpfPfbfg,·,æ,Ñ Terminate-Request fpfPfbfg,ì""—,É—LCEø,ÈŽžŠÔ (•b) ,ð[]Ý'è,μ,Ü,·[]BRestart f^fCf},ì—LCEøŽžŠÔ,ª[]ø,ê,é,Æ[]Af^fCf€fAfEfg fCxf"fg[]A,·,æ,Ñ'í%ž,·,é Configure-Request fpfPfbfg,Ü,½,Í Terminate-Request fpfPfbfg,ì[]Ä""—,ìCE'^ö,É,È,è,Ü,·[]B
Šù'è'[]F 3

NegotiateTime REG_DWORD

"í[]F 0 []`-³[]\$CEÀ
%ñ[]ü,ª[]ø'f,³,ê,é'O,É PPP flfSfvfG[]lfvf#f",ªŽù'©,ð[]—CE±,·,é,½,β,É" F,β,ç,ê,½ŽžŠÔ (•b) ,ð[]Ý'è,μ,Ü,·[]B0 ,É[]Ý'è,·,é,Æ%ñ[]ü,í[]ø'f,³,ê,Ü,¹,ñ[]B
Šù'è'[]F 150

ForceEncryptedData REG_DWORD

"í[]F 0 []` 1
RAS fT[]fo[][]ä,Å,¾,~Žg,ç,Ü,·[]BfŠf,[]lfg fNf%ofCfAf"fg,Éff[]f^,ì^Ã[]+%»»,ðŽg,±,±,Æ,ð— v<[]μ,Ü,·[]BfNf%ofCfAf"fg,í[]AMS-CHAP fv[]fgfRf< (Windows NT Version 3.5 ,æ,è"±"ü) ,ðfTfj []lfg,μ,Ä,ç,È,·,é,ì,È,è,Ü,¹,ñ[]BfNf%ofCfAf"fg,ª MS-CHAP fv[]fgfRf<,ðfTfj[]lfg,μ,Ä,ç,È,ç,è[]±,í[]A[]Ú'± ,íŽ©"®"I,É[]ø'f,³,ê,Ü,·[]B,±,lfpf%of[]f^,ð 1 ,É[]Ý'è,·,é,Æ[]AfT[]fo[][,íf[]f^,ì^Ã[]+%»»,ð—v<[]μ,Ü,¹,ñ[]B ,É[]Ý'è,·,é,Æff[]f^,ì^Ã[]+%»»,ð—v<[]μ,Ü,¹,ñ[]B

Šù'è'I□F 0

ForceEncryptedPassword REG_DWORD

"í'í□F 0 □` 2

RAS fT□[fo□[□ã,Å,¾,~Žg,ç,Ü,·□BfNf%ofCfAf"fg,l" F□□Ø,ð□s,æ,«,É CHAP (Challenge-Handshake Authentication Protocol□F Challenge fnf"fhfVfFfCfN" F□□Øfvf□fgfRf<) ,ðŽg,æ,±,Æ,ð□Y'è,µ,Ü,·□B,±,lfpf %of□□[f^,ð 0 ,É□Y'è,·,é,Æ□AfT□[fo□[,í□AfNfŠfA fefLfXfg,ðŠÜ,ß,Ä,Ç,lf□[f^,í^ Å□+%o»•úŽ®,Å,à<- %oÅ,µ,Ü,·□B1 ,É□Y'è,·,é,Æ□AfT□[fo□[,í□AfNfŠfA fefLfXfg^ÈŠÖ,ì,Ç,lf□[f^,í^ Å□+%o»•úŽ®,Å,à<- %oÅ,µ,Ü,·□B2 ,É□Y'è,·,é,Æ□AfT□[fo□[,í□AMS-CHAP ,ð—v<□,µ,Ü,·□B

Šù'è'I□F 2

Logging REG_DWORD

"í'í□F 0 □` 1

PPP fCxf"fg,lf□O,lžû□W,ð□Y'è,µ,Ü,·□B1 ,ð□Y'è,·,é,Æ□A,·,x,Ä,l PPP fCxf"fg,í systemrootssystem32rasppp.log ftf@fCf<,Éf□fO,ªžû□W,ª,è,Ü,·□B,±,lfpf%of□□[f^,í PPP □Ú'±,ÉŠÖ,·,é- à'è,l%oðœ^,É•Ö—~,Å,·□B

Šù'è'I□F 0

DisableSoftwareCompression REG_DWORD

"í'í□F 0 □` 1

f\ftfgfEjFfA^³□k,ð—LCEø,Ü,½,í-³CEø,É,µ,Ü,·□B1 ,ð□Y'è,·,é,Æ□Af\ftfgfEjFfA^³□k,ª-³CEø,É,È,è,Ü,·□B0 ,ð□Y'è,·,é,Æ□Af\ftfgfEjFfA^³□k,ª—LCEø,É,È,è,Ü,·□B

Šù'è'I□F 0

DefaultCallbackDelay REG_DWORD

"í'í□F 0 □` 255

RAS fNf%ofCfAf"fg□ã,ÅŽg,Á,Ä□ARAS fT□[fo□[,lf,fff€,ÉfR□[f<fofbfN,·,é,Ü,Å,É'Ò,Å•b□",ðŽw'è,µ,Ü,·□B Šù'è'I□F 12 (fpf%of□□[f^,ªfCEfWfXfgfŠ,É'¶□Y,µ,È,ç□ê□#)

PPP ftfufL□□

,±,è,ç,lfpf%of□□[f^,í□APPP fL□[,lfTfufL□[,Å,·□B

CBCP REG_EXPAND_SZ

'I□F DLL fpfX

CBCP (Callback Control Protocol□F fR□[f<fofbfN□\$CEäfvf□fgfRf<) DLL ,ì□ê□Š,ðŽw'è,µ,Ü,·□BCBCP ,lfŠf,□[fg fNf%ofCfAf"fg,ÆfR□[f<fofbfN□í•ñ,lfSfVfG□[fvf#",ð□s,ç,Ü,·□B□í,É•VŽ!,ª,è,Ü,·□B

CHAP REG_EXPAND_SZ

'I□F DLL fpfX

CHAP (Crypto-Handshake Authentication Protocol□F Crypto fnf"fhfVfFfCfN" F□□Øfvf□fgfRf<) DLL ,ì□ê□Š,ðŽw'è,µ,Ü,·□B□í,É•VŽ!,ª,è,Ü,·□B

COMPCP REG_EXPAND_SZ

'I□F DLL fpfX

CCP (Compression Control Protocol□F ^³□k□\$CEäfvf□fgfRf<) DLL ,ì□ê□Š,ðŽw'è,µ,Ü,·□BCCP ,lfŠf,□[fg fNf%ofCfAf"fg,Æ^³□k,lfSfVfG□[fvf#",ð□s,ç,Ü,·□B□í,É•VŽ!,ª,è,Ü,·□B

IPCP REG_EXPAND_SZ

'I□F DLL fpfX

IPCP (Internet Protocol Control Protocol□F fCf" f^□[f\fbfg fvf□fgfRf<□\$CEäfvf□fgfRf<) DLL

,ìêš,đžw'è,μ,Û,·BRAS ,^a TCP/IP ,đžg,κ,æ,κ,É∅∅-,³,ê∅ATCP/IP ,^afCf"fxfg∅[f<,³,ê,Ä,ç,éê∅±,É•\ Žì,³,ê,Û,·∅B

,±,ê,ç,ìfpf%∅∅∅f^,đ **IPCP** fTfufL∅[É'Ç%∅Á,Ä,«,Û,·∅B

AcceptVJCompression **REG_DWORD**

"í'í∅F 0 ∅` 1

IPCP ,^a IPCP •W∅€fìfvfVf#f" 0x02 (Van Jacobson fwfbf_∅[^³∅k) ,đžó,·•t,·,È,ç,æ,κ,É,·,é,É,í∅A,±,ìfpf %∅∅∅f^,đ'Ç%∅Á,μ,Û,·∅B,±,ìfpf%∅∅∅f^,∅'Ç%∅Á,³,ê,Ä,ç,È,ç∅ê∅±∅A,Û,½,í 1 ,É∅Ý'è,³,ê,Ä,ç ,é∅ê∅±∅ARAS fNf%∅CfAf"fg,í Van Jacobson ^³∅k,đžó,·•t,·,Û,·∅B

Šù'è'∅F f∅Fwfxfgš,É,í,È,ç

PriorityBasedOnSubNetwork **REG_DWORD**

"í'í∅F 0 ∅` 1

fRf"fsf...∅[f^,í∅Aflfbfgf∅∅[fN f∅[fh,Æ RAS ∅Ú'±,đžg,Ä,Ä∅ALAN ,É∅Ú'±,Ä,«,Û,·BRAS ∅Ú'±,Æ LAN flfbfgf∅∅[fN fAf_fvf^ f∅[fh,É"·,ìflfbfgf∅∅[fN"∅∅t,ÄfAhf∅fX,^aš,,è"-,Ä,ç,é∅Aìfšf,∅[fg flfbfgf∅∅[fN∅ä,ìffftHf-fg fQ∅[fgfEfc,đžg,κ] f'fFbfNf{fbfNfX,^ašif",ì∅ê∅±∅A,±,ì 2

,Ä,ìfAhf∅fX,^a"·,ìflfbfgf∅∅[fN"à,ì^Û,È,éfTfufìfbfgf∅∅[fN,É, ,Ä,Ä,à∅A,·,x,Ä,ìfpfPfbfg,í RAS ∅Ú'±,đ %∅î,μ,Ä'-∅M,³,ê,Û,·∅B

,±,ìfpf%∅∅∅f^,đ 1 ,É∅Ý'è,·,é,Æ∅Aflfbfgf∅∅[fN f∅[fh,đ∅Eo-R,μ,ÄfpfPfbfg,đ'-∅M,μ,Û,·∅B

,½,Æ,ì,ì∅Aflfbfgf∅∅[fN fAf_fvf^ f∅[fh,ì IP fAhf∅fX,^a 10.1.1.1 (fTfufìfbfg f}fXfN,^a 255.255.0.0) ,Ä∅ARAS ∅Ú'±,Éš,,è"-,Ä,ç,ê,Ä,ç,éfAhf∅fX,^a 10.2.1.1 ,ì∅ê∅±∅ARAS ,í∅ARAS ∅Ú'±,đžg,Ä,Ä,·,x,Ä,ì 10.x.x.x fpfPfbfg,đ'-∅M,μ,Û,·∅B,±,ìfpf%∅∅∅f^,đ 1 ,É∅Ý'è,·,é,Æ∅ARAS ,í 10.2.x.x fpfPfbfg,đ RAS ∅Ú'±,É∅A10.1.x.x fpfPfbfg,đflfbfgf∅∅[fN fAf_fvf^ f∅[fh,É'-∅M,μ,Û,·∅B

Šù'è'∅F f∅Fwfxfgš,É,í,È,ç

RequestNameServerAddresses **REG_DWORD**

"í'í∅F 0 ∅` 1

IPCP ,^a∅AWINS fT∅[fo∅[,·,æ,Ñ DNS fT∅[fo∅[,ìfAhf∅fX,ìfìSfvfG∅[fvf#f",ì,½,ß,ì Microsoft Šg'£fìfvfVf#f" (IPCP fìfvfVf#f" 0x81∅A0x82∅A0x83∅A,·,æ,Ñ 0x84) ,đ-v<∅,μ,È,ç,æ,κ,É,·,é,É,í∅ARAS fNf%∅CfAf"fg,Ä,±,ìfpf%∅∅∅f^,đ'Ç%∅Á,μ,Û,·∅B,±,ìfpf%∅∅∅f^,∅'Ç%∅Á,³,ê,Ä,ç,È,ç∅ê∅±∅A,Û,½,í 1 ,É∅Ý'è,³,ê,Ä,ç,é∅ê∅±∅AfNf%∅CfAf"fg'κ,ìfAhf∅fX,đ-v<∅,μ,Û,·∅B

Šù'è'∅F f∅Fwfxfgš,É,í,È,ç

RequestVJCompression **REG_DWORD**

"í'í∅F 0 ∅` 1

IPCP ,^a IPCP •W∅€fìfvfVf#f" 0x02 (Van Jacobson fwfbf_∅[^³∅k) ,đ-v<∅,μ,È,ç,æ,κ,É,·,é,É,í∅ARAS fNf %∅∅CfAf"fg,Ä,±,ìfpf%∅∅∅f^,đ'Ç%∅Á,μ,Û,·∅B,±,ìfpf%∅∅∅f^,∅'Ç%∅Á,³,ê,Ä,ç,È,ç∅ê∅±∅A,Û,½,í 1 ,É∅Ý'è,³,ê,Ä,ç,é∅ê∅±∅ARAS fNf%∅CfAf"fg,í Van Jacobson ^³∅k,đ-v<∅,μ,Û,·∅B

Šù'è'∅F f∅Fwfxfgš,É,í,È,ç

IPXCP **REG_EXPAND_SZ**

'∅F DLL fpfX

IPXCP (Internetwork Packet Exchange Control Protocol∅F fCf"f^∅[flfbfg fpfPfbfg∅∅Š-∅S∅EäfVf∅fgfRf<) DLL ,ì∅êš,đžw'è,μ,Û,·BRAS ,^a IPX ,đžg,κ,æ,κ,É∅∅-,³,ê∅ANetWare fNf%∅CfAf"fg fT∅[frfX,Û,½,í NetWare fQ∅[fgfEfc fT∅[frfX,^afCf"fxfg∅[f<,³,ê,Ä,ç,éê∅±,É•\ Žì,³,ê,Û,·∅B

NBFCP **REG_EXPAND_SZ**

'∅F DLL fpfX

NBFCP (NetBEUI Framing Control Protocol) DLL
, à ê Š, ð Ž w' è, μ, Ü, · BRAS ,^a NetBEUI , ð Ž g, æ, æ, É \ - ,³ , ê ANetBEUI, ^a f C j " f X f g [f < ,³ , ê, Ä, ç, é ê †, É • \
Ž ,³ , ê, Ü, · B

PAP REG_EXPAND_SZ

'I F DLL f p f X

PAP (Password Authentication Protocol) DLL , à ê Š, ð Ž w' è, μ, Ü, · B í, É • \
Ž ,³ , ê, Ü, · B

Rdr fpf%of[]f^

,±,lfpf%of[]f^,íAZÿ,ÉŽ!,fCFWfXfgfŠ fpfX,É, ,è,Ü,·B

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Rdr\Parameters

RawloTimeLimit REG_DWORD

"í^íF %o<LŽQÆ

,±,lfpf%of[]f^,í NetBIOS fQ[]fgfEfc,ðŽg,æÜ,ì[]- ,É,¼, -Žg,ç,Ü,·B

ff[]f^,ð 64KB ,ìfuf[]bfN^P^Ê,Á'—M, ,é,æ,æ,ÉfŠf_fCfNf^,ðY'è,µ,Ü,·B**RawloTimeLimit**
,ðf" ,É, ,é,Æ[]AfXf[]fvbfg,í 10 ,©,ç 15 []"µ,Ü,·B"-Žž,É¶Y,µ,Ä,ç,é,Ü,©,ì, ,x,Ä,ìff[]f^"-
,íA,±,ì'-"x,Ä'ÊM, ,é,Æfuf[]bfN,³,è,Ü,·B

,±,lfpf
%of[]f^,íASù'è,ìY'è,Ä,íA'á' -fŠf"fn,Ä,ífift,É,È,è[]A, '-fŠf"fn,Ä,ífift",É,È,è,Ü,·B,½,Æ,ì,íA14,400
bps ,Ü,½,í,»,è^È%o,ì'-"x,Ä'ÊM,µ,Ä,ç,éê[]+A,±,ì<@"\,ífift,É,È,è,Ü,·BISDN %oñü,ì,æ,æ
,Ê, '-ÊM,ìê[]+íA,±,ì<@"\,ífift",É,È,è,Ü,·B

Žÿ,ìè—,í ISDN Ü'±,É'í,µ,Ä Raw I/O ,æf" ,Ü,½,ífift, ,é,ì,ª,Ç,ì,æ,æ,É'l,©,ðŽ!,µ,Ü,·B

RawloTimeLimit ,ð 9 ,ÉY'è

Raw I/O ,í 64K ,ì`ffff[]< 1 ,Ä,ðCo—R,µ,ÄÜ'±,µ,½,Æ,«,Éf" ,É,È,è,Ü,·B
Raw I/O ,í 64K ,ì`ffff[]< 2 ,Ä,ðCo—R,µ,ÄÜ'±,µ,½,Æ,«,Éf" ,É,È,è,Ü,·B

RawloTimeLimit ,ð 5 ,ÉY'è (Šù'è'l)

Raw I/O ,í 64K ,ì`ffff[]< 1 ,Ä,ðCo—R,µ,ÄÜ'±,µ,½,Æ,«,Éfift,É,È,è,Ü,·B
Raw I/O ,í 64K ,ì`ffff[]< 2 ,Ä,ðCo—R,µ,ÄÜ'±,µ,½,Æ,«,Éf" ,É,È,è,Ü,·B

RawloTimeLimit ,ð 0 ,ÉY'è

Raw I/O ,í 64K ,ì`ffff[]< 1 ,Ä,ðCo—R,µ,ÄÜ'±,µ,½,Æ,«,Éfift,É,È,è,Ü,·B
Raw I/O ,í 64K ,ì`ffff[]< 2 ,Ä,ðCo—R,µ,ÄÜ'±,µ,½,Æ,«,Éfift,É,È,è,Ü,·B

RasArp fpf%of[]f^

,±,lfpf%of[]f^,íAŽŸ,ÉŽ!,fCfWfXfgfŠ fpfX,É, ,è,Ü,·B

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\RasArp\Parameters

FilterBroadcasts

REG_DWORD

"í^í[]F 0 []` 1

RAS ,Éfuf[][]fhfLfffXfg fpfPfbfg (,½,Æ,í,í[]A, ,Ä[]æfAfhfCfX,ª 255.255.255.255) ,",æ,ÑfTfuflfbbfg
f}f·f`fLfffXfg (,½,Æ,í,í[]A, ,Ä[]æfAfhfCfX,ª 11.101.255.255) ,ð""´—,³,¹,é,É,í[]A,±,lfpf%of[]f^,ð'Ç
%oÁ,µ,Ü,·BfRf"fsf...[]f^,ª[]Afuf[][]fhfLfffXfg/f}f·f`fLfffXfg"J'—,ðTf|[]fg,·,éT[]fh
fp[]fefB»»,lfŠf,[]fg fAfNfZfX f<[]f^[] (Windows NT fŠf,[]fg fAfNfZfX
fT[]fo[],í[]Afuf[][]fhfLfffXfg,Ü,½,í}f·f`fLfffXfg,ð""´—,µ,Ü,¹,ñ) ,ðCÉÄ,Ñ[]o,·è[]‡,í[]AfNf%ofCfAf"fg,Á,±
,lfpf%of[]f^,ð 0 ,É[]Ÿ'è,µ,Ü,·B

Šù'è'[]F 1.

Nbf fpf%of[]f^

,±,lfpf%of[]f^,í[]AZŸ,ÉŽ!,.fCefWfXfgfŠ fpfX,É, ,è,Ü,·[]B

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Nbf\Parameters

InitUIFrames REG_DWORD

"í^í[]F 0 []`-³[]§CEÀ

RAS fNf%ofCfAf"fg,©,çfjfbfgf[]fN,É"~Žž,É'Ç%oÁ,Á,«,é NetBIOS -¼,ì[]",ð[]Ý'è,·,é,É,í[]A,±,lfpf
%of[]f^,ð'Ç%oÁ,μ,Ü,·[]B

Šù'è'í[]F 5.

fCf“f^[]flfbfg fZfbVfjf“ ,l—á

Windows NT f_fCf,,f<fAfbfv flfbfgf[]fN,ð[]ATCP/IP[]Af,fff€,Ü,½,Í,»,ì¼,ì WAN
[]Ú'±[]A,“,æ,Ñ^è”Ê,É“üŽè,Å,«,éfCf“f^[]flfbfg fuf%oEfU,âfCf“f^[]flfbfg fc[]f<,Æ[]±,í,¹,ÄŽg,α
,Æ[]AfCf“f^[]flfbfg fT[]fo[]l,É[]Ú'±,μ,ÄfCf“f^[]flfbfg[]ă,ì,³,Ü,´,Ü,È[]î•ñ,âfT[]lfrfX,ðfuf%oEfY,Å,«,Ü,·[]B
,Ü,½[]AWindows NT Server ,ðŽÀ[]s,·,éfRf“fsf...[]f^,í[]AfCf“f^[]flfbfg fT[]lfrfX fvf[]fofCf_ ,ð—~—p,·,é,±
,Æ,É,æ,è[]A[]À`â 256 ,ìfŠf,[]fjg fNf%oEfAf“fg,ÉfCf“f^[]flfbfg,Ö,ìfAfNfZfX,ð`ñ<ÿ,Å,«,Ü,·[]B

fCf“f^[]flfbfg,É,í[]Af_fCf,,f<fAfbfv flfbfgf[]fN,ðŽg,Á,ÄfCf“f^[]flfbfg fT[]lfrfX fvf[]fofCf_ ,ð%î,μ,Ä[]Ú'±
,μ,Ü,·[]B[]Ú'±,³,è,½,ç[]AfCf“f^[]flfbfg fuf%oEfU,ðŽg,Á,Ä[]î•ñ,ðCEÿ[]ð,Å,«,Ü,·[]B,±,±,Å,í[]AWindows
NT[]ATCP/IP[]Af_fCf,,f<fAfbfv flfbfgf[]fN[]A,“,æ,Ñ”C^Ó,ìfCf“f^[]flfbfg fuf%oEfU,ðfCf“fXfg[]f<,μ[]A\
[]¬,μ,Ä, ,é,±,Æ,ð`O`ñ,Æ,μ,Ä,ç,Ü,·[]B

fZfbVfjf“,ðŠŽn,·,é,É,í[]Af}fC fRf“fsf...[]f^,©,çf_fCf,,f<fAfbfv flfbfgf[]fN,ð<N“® ,μ,Ü,·[]BŽg—
p,·,éfCf“f^[]flfbfg fT[]lfrfX fvf[]fofCf_ ,ì“d~b`fGf“fgjŠ,ð`l`ð,μ[]A[f_fCf,,f<] ,ðfNfŠfbfN,μ,Ü,·[]B

f_fCf,,f<fAfbfv flfbfgf[]fN,É,æ,Á,Ä[]AfCf“f^[]flfbfg fT[]lfrfX fvf[]fofCf_ ,Éf_fCf,,f<,³,è[]Afvf[]fofCf_ ,ìfVfXfef€
,Éf[]fofif“,³,è,Ü,·[]BŽÀ[]Ú,ìf[]fofif“Žè[]±,í[]A[]Ú'±[]æ,ìfT[]lfrfX fvf[]fofCf_ ,l—
v[]E[],É,æ,Á,Ä^Ü,È,è,Ü,·[]B`É[]í[]APPP []Ú'±,íŠ`S,ÉŽ`@“®“l,É[]s,í,è,Ü,·[]BSLIP []Ú'±,Å,ìf^[]f~fif<
f[]fofif“,²•K—v,É,È,é[]è[]±,à, ,è,Ü,·[]Bf^[]f~fif< f[]fofif“,í[]ASWITCH.INF ftf@fCf<,ìfXfNfŠfVfg,É,æ,èŽ`@“®
%o»,Å,«,é[]è[]±,ÆŽ`@“®%o»,Å,«,È,ç[]è[]±,², ,è,Ü,·[]BfCf“f^[]flfbfg fT[]lfrfX fvf[]fofCf_ ,Ö,ì[]Ú'±
,“,æ,Ñf[]fofif“,²³[]í,ÉŠ`@—¹,μ,½,ç[]Af_fCf,,f<fAfbfv flfbfgf[]fN,ìfEfBf“fhfE,ð[]À[]¬%o»,Å,«,Ü,·[]B

fCf“f^[]flfbfg,É[]Ú'±,³,è,é,Æ[]A“C^Ó,ìfCf“f^[]flfbfg fc[]f<,ðŽg—p,Å,«,Ü,·[]BfCf“f^[]flfbfg,ì—~—p,ð[]l—
¹,μ,½,ç[]A•s—v,È—~—p—z<à,²,©,©,ç,È,ç,æ,α,É[]A,·,®,ÉfCf“f^[]flfbfg fT[]lfrfX fvf[]fofCf_ ,Æ,ì[]Ú'±
,ð[]Ø`f,μ,Ä,,¾,³,ç[]B

fCf“f^[]flfbfg fNf%oCfAf“fg,Æ,μ,Ä Windows NT ,đŽg,α

- f_fCf,,f:fAfbfv flfbfgf[][]fN,đŽg,α,Æ[]AŠÈ’P,ÉfCf“f^[]flfbfg,É[]Ú’ ± ,Ä,«,Ü,·[]BfCf“f^[]flfbfg,ÖfAfNfZfX,·,é,½,β,É•K—v,È[]□—v’f,ÍŽŸ,Ì,Æ,“,è,Ä,·[]B
- f_fCf,,f:fAfbfv flfbfgf[][]fN,lfCf“f^[]flfbfg—p“d~b’ fGf“fgfŠ,ÄŽg—p,Ä,«,é,æ,α,ÉfCf“fXfg[]f<,³,é,½ TCP/IP fv[]fgfRf<[]B
- fRf“fsf...[]f^,ÉfCf“fXfg[]f<,³,é,½f_fCf,,f:fAfbfv flfbfgf[][]fN[]BŠé<Æ“à,lfhf[]fCf“,É’® ,μ,Ä,¢ ,é[]è[]±,Í[]AfŠf,[]fg fAfNfZfX,ì<-%oÄ,đŽ□,Áft[]fU[][fAf]fEj“fg,à•K—v,Ä,·[]B
- f,fff€,Ü,½,ì,»,ì¼,ì WAN ,É,æ,éfcf“f^[]flfbfg ft[]lfrfX fv[]fofCf_ ,Ö,ì[]Ú’ ±[]B
- fCf“f^[]flfbfg ft[]lfrfX fv[]fofCf_ ,©,čŽæ“¾,μ,½fAf]fEj“fg[]B
- fu[]fofEjU[]AFTP[]ATelnet ,É,Ç,lfCf“f^[]flfbfg fc[]f<[]B

TCP/IP ,Æf_fCf,,f:fAfbfv flfbfgf[][]fN

TCP/IP ,Í[]AfCf“f^[]flfbfg,ì,·,x,Ä,lfgf%oftfBfbfN,ÄŽg,í,é,éfv[]fgfRf<ÆQ,Ä,·[]BWindows NT ,ì TCP/IP ,Í[]AfCf“f^[]flfbfg,ÄŽg,α,½,β,ìCEÝŠ-□«,đŠ®’S,É”ö,ì,Ä,¢,Ü,·[]Bf_fCf,,f:fAfbfv flfbfgf[][]fN fNf %ofCfAf“fg,Í[]APPP fv[]fgfRf<,Æ SLIP fv[]fgfRf<,ì—¼•Ü,đftf[]fg,μ,Ä,¢,Ü,·[]B,± ,é,ç,lfv[]fgfRf<,Í[]A,Ü,Æ,ñ,Ç,lfCf“f^[]flfbfg ft[]lfrfX fv[]fofCf_ ,É,æ,Ä,ÄŽg,í,é,Ä,“,è[]AWindows NT fNf %ofCfAf“fg,Í[]AZÄŽž“l,É,·,x,Ä,lfCf“f^[]flfbfg fv[]fofCf_ ,Æ[]Ú’ ±,Ä,«,Ü,·[]B

f,fff€,Æ WAN []Ú’ ±

fCf“f^[]flfbfg ft[]lfrfX fv[]fofCf_ ,Æ,ì[]Ú’ ±,É,Í[]Af,fff€,Æ“d~b%oñ[]ü[]AISDN fj[]fh,Æ ISDN %oñ[]ü[]AX.25 flfbfgf[][]fN[]A,Ü,½,Í PPTP (Point-to-Point Tunneling Protocol[]f lfCf“fg fc[]l lfCf“fg fg]fŠf“fO fv[]fgfRf<) ,ì,¢,·,è,©,ªŽg,í,é,Ü,·[]B

f,fff€,đŽg,α[]è[]±,Í[]Af_fEj“f[]fh,ìžžŠÖ,đ’Z[]k,·,é,½,β,É[]A,Ä,«,é,¾,“,ç’É[]M’—“x,đ’l’đ,μ,Ä,- ,¾,³,¢[]B9600bps ^È[]ä,lf,fff€,đŽg,α,±,Æ,đ,“Š©,β,μ,Ü,·[]Bf,fff€,â,»,ì¼,ì WAN []Ú’ ±,ì[]Ú×,É,Ä,¢ ,Ä,Í[]A[]uWAN flfv[]fv[]f[]v,đŽQ[]Æ,μ,Ä,,¾,³,¢[]B

ft[]lfrfX fv[]fofCf_ ,©.cfCf“f^[]flfbfg fAf]fEj“fg,đŽæ“¾,·,é

fCf“f^[]flfbfg ft[]lfrfX fv[]fofCf_ ,Í[]A[]qŠE’t,É’¶[]Ý,μ,Ü,·[]B,Ü,©,lf]f“f%ofCf“ ft[]lfrfX,âCEfŽ!’Ä,ì[]è[]±,Æ“—,¶,æ,α,É[]Af[]lfrfX”Ö[]t,Éf_fCf,,f,μ[]AfŠf,[]fg fv[]XfefÉ ,Éf[]OfCf“ ,μ,Ü,·[]B[]Ú’ ±,³,é,½,ç[]AfCf“f^[]flfbfg,“,æ,Ñ,»,ì¼,lf[]lfrfX (ft[]lfrfX fv[]fofCf_ ,ªñ·Ÿ,·,é“džq[]f<,È,Ç) ,ÉfAfNfZfX,Ä,«,é,æ,α,É,È,è,Ü,·[]B’É[]í,Í[]A,Ç,ì[]x—pfCf“f^[]flfbfg ft[]lfrfX fv[]fofCf_ ,à—~—p—z<à,ª,©,©,è,Ü,·[]B

fCf“f^[]flfbfg fc[]f<

fCf“f^[]flfbfg[]ä,ì[]i•ñ,âft[]lfrfX,Ö,lfAfNfZfX,É—~—p,Ä,«,éfc[]f<,ì¼[]”, ,è,Ü,·[]BŽg—p,·,éfc[]f<,Í[]A•K— v,Æ,·,é[]i•ñ,ìžì—b,â[]A,»,ì[]i•ñ,lfCf“f^[]flfbfg[]ä,Ä,ì•Ü’¶[]ü—@,É,æ,Ä,Ä^Ü,È,è,Ü,·[]B

Windows NT ,ì TCP/IP ,É,Í[]AfCf“f^[]flfbfg ft[]fo[][,ÖfAfNfZfX,·,é,½,β,ì•W[]éfc[]f<,Æ,μ,Ä[]AFTP ,Æ TELNET ,ì 2 ,Ä,ª•t’®,μ,Ä,¢,Ü,·[]BFTP ,Í[]AFTP ft[]fo[][,É[]Ú’ ±,μ,Äft[]fCf<,đ’]’—,Ä,«,éfc[]f<,f“fhf%ofCf“ ft[]f[]f[]BŠf[]f[]B,Ä,·[]BTELNET ,Í[]AfŠf,[]fg fRf“fsf...[]f^,Éf[]OfCf“ ,μ[]A,»,lfRf“fsf...[]f^,lfL[]f{[]fh,©,ç“ü —í,·,é,ì,Æ“—,¶,æ,α,ÉfRf}f“fh,đ“ü—í,Ä,«,éfo[]foftfBf]f< fAfvfŠfP[]fVf#“ ,Ä,·[]B

,±,ì,Ü,©,É,à[]AfCf“f^[]flfbfg

fc[]f<,É,Í[]AfCf“f^[]flfbfg,©,ç“üžè,Ä,«,éfc[]f<,â’É[]í,lf<[]fg,Ä[]w“ü,Ä,«,éžs“lf<[]f<,ª¼[]”, ,è,Ü,·[]BFTP ,â TELNET ,ì<KŠi,ª[]□—,³,é,½CEä,à[]AfCf“f^[]flfbfg,ì<Z[]p,Í[]i•à,μ,Ä,¢,Ü,·[]BfCf“f^[]flfbfg,đ,,Ü,È,- “T[]ö,μ[]A[]ÄV,ì<@“^,đ—~—p,·,é,É,Í[]A[]V,μ,·É,lfCf“f^[]flfbfg fu[]fofEjU,đ“üžè,·,é•K— v,ª,è,Ü,·[]BpfufŠf[]fN fhf[]fCf“,lfCf“f^[]flfbfg fu[]fofEjU (,“,æ,Ñ,»,ì¼,ì Windows Sockets fAfvfŠfP[]fVf#“) ,đ“üžè,Ä,«,é FTP ft[]fCf,Æ,μ,Ä,Í[]Asunsite.unc.edu ,Æ ftp.cica.indiana.edu ,ì 2 ,Ä,ª—L—¼,Ä,·[]B

fCf" f^ [flfbfg fAfNfZfX—p, i Windows NT f\ftfgEjFfA, dCf" fXfg [f<, , é

, ±, ±, Å, í AfCf" f^ [flfbfg, ÉfAfNfZfX, , é, ½, B, i TCP/IP , Af_fCf, f<fAfbfv flfbfg [fN (RAS) , lCf" fXfg [f< • ú-
@, , æ, Ñ [fN - • ú-@, É, Å, ç, Å [fN - ¾, µ, Ü, • BfCf" f^ [flfbfg, ÉfAfNfZfX, , é, É, í [ATCP/IP
, í • K, , fCf" fXfg [f<, µ, È, , è, í, È, è, Ü, , ñ [BfCf" f^ [flfbfg, Ö, lAfNfZfX, ð' ñ < Y, , éRf" fsf... [f^ , f [fj< fGfSfA
flfbfg [fN ä, É, È, ç [é [f, í Af_fCf, f<fAfbfv flfbfg [fN, àCf" fXfg [f<, µ, È, , è, í, È, è, Ü, , ñ (, ±
, lfwf<fv, l_fCf, f<fAfbfv flfbfg [fN, dCf" fXfg [f<, µ, È, , è, lCf" fXfg [f<, , é, È, ç, í, Å [A, ±, lRf" fsf...
[f^ , É, í Š, Éf_fCf, f<fAfbfv flfbfg [fN, lCf" fXfg [f<, , é, Å, ç, é, í, , Å,) [B

TCP/IP , Af_fCf, f<fAfbfv flfbfg [fN, lCf" fXfg [f<, , æ, Ñ [fN - , Š @ - 1, µ, ½, ç [A Windows NT fGfNfXfv [f
%, dŽg, Å, ÅRf" fsf... [f^ [ä, í, Ç, lffBfCfNfgfŠ, æ - LffBfCfNfgfŠ, É, È, Å, Å, ç
, é, ©, d' 2, x, Ü, • BfCf" f^ [flfbfg fT [frfX fvf [fofCf_ , É, æ, Å, Å, í AfCf" f^ [flfbfg, AEÚ ±
, µ, ½, AE, «, É [AfRf" fsf... [f^ [ä, í < æ - LZ' CE 1, a, Ü, ©, lŠf, [fg fRf" fsf... [f^ , ©, ç - ~ -
p, Å, «, é [é [f, à, , è, Ü, • BfŠf, [fg fRf" fsf... [f^ , ©, ç Žg, í, è, Å, í [ç, é Ž' CE 1, [A < æ - L, d' t Ž - , , é, © [A < æ - L, í [v
[fN - , d • [X, µ, Å, , ¾, ¾, ç [B

TCP/IP

TCP/IP , í AfCf" f^ [flfbfg, dŽg, æ, , x, Å, lRf" fsf... [f^ [ä, Å Žg, í, è, évf [fgfRf< fZfbfg, Å, • BTCP/IP
, dCf" fXfg [f<, É, í AfRf" fg [f< fpflf<, í [flfbfg [fN] , dŽg, ç, Ü, • B [fvf [fgfRf<] f^ fu, í [' Ç % Å]
, dNfŠfbfN, µ [AZŽ, É [TCP/IP fvf [fgfRf<] , d' í d, µ, Ü, • B % æ - É, É • Ž' , , é, é Žw Ž' , É [] , Å, Å [ATCP/IP
, dCf" fXfg [f<, µ, Å, , ¾, ¾, ç [B

TCP/IP , lCf" fXfg [f< Š @ - 1 CE ä AfCf" f^ [flfbfg, Å, í [€ [] , d [] í, É [s, æ, É, í [AZŽ, lfpf % [f^ , í [fN - , a • K -
v, AE, É, é [é [f, a , è, Ü, • B

IP fAhfCfX

flfbfg [fN, Å DHCP (Dynamic Host Configuration Protocol [" @ " l f z f X f g [fN - f v f [f g f R f <) , a Ž g , í , è , Å , ç
, é [é [f, í Af [fj< flfbfg [fN ^ È Š O, Å Ž g , æ , ½ , B , í - L CE Ø , É IP fAhfCfX, AfTfu flfbfg
f} fXfN, d Af flfbfg [fN, í DHCP fT [fo [] , © , ç Ž æ " ¾ , , é , © , Ç , æ , © , d Ž w ' è , µ , È , , è , í , È , è , Ü , , ñ [BDHCP
fT [fo [] , © , ç Ž æ " ¾ , µ , È , ç [é [f, í [ADHCP , d Ž g , æ [fN - , d - 3 CE Ø , É , µ [A ' Á ' è , í IP fAhfCfX, AfTfu flfbfg
f} fXfN, d Ž g , í , È , , è , í , È , è , Ü , , ñ [B

ffffHf<fg fQ [fgfEjFfC

RAS , d % o í , µ , AfCf" f^ [flfbfg fT [fo [] , É [Ú ± , µ , Å , ç , é [é [f, í [ARAS , d % o í , µ , Å [fN - , , é , ½ ffffHf<fg
fQ [fgfEjFfC, a Ž g , í , è , Ü , • B

DNS

Žg - p , µ , Å , ç , éRf" fsf... [f^ , Å, í DNS (Domain Name System [F fh [fCf" f [f€ fVXfef€) , í [v
[fN - , a [Af [fj< flfbfg [fN, É ' í , µ , Å , í , Y - L CE Ø , É , È , Å , Å , ç , é [é [f, a , , è , Ü , • B CE Ø - , æ , -
fCf" f^ [flfbfg, ÉfAfNfZfX, , é, É, í [ADNS fAhfCfX, í ' Ç % Å , a • K - v, É [é [f, à, , è, Ü, • B

HOSTS ftj@fCf<, Ü, ½, í LMHOSTS ftj@fCf<

HOST ftj@fCf<, Ü, ½, í LMHOST ftj@fCf<, ÉfGf" fgfŠ, d' Ç % Å , , é, ±
, AE, É, æ, è [AfCf" f^ [flfbfg [ä, í • p " É, ÉfAfNfZfX, , éfT [fo [] , AE, í [Ú ± , í CE Ø - , d [ä, °, é, ±
, AE, a, Å, «, Ü, • B Windows NT , í - ¼ ' O % d CE ^ , Å, í AfCf" f^ [flfbfg [ä, í DNS fT [fo [] , É - à, ç [f, í, , é ' O, É [A, ±
, è, ç, l [f [fj< ftj@fCf<, a' 2, x, ç, è, Ü, • B

f_fCf, f<fAfbfv flfbfg [fN (RAS)

f_fCf, f<fAfbfv flfbfg [fN, í AfŠf, [fg, lCf" f^ [flfbfg fT [frfX fvf [fofCf_ , d - ~ - p , , é, ½, B, l f
ftfgEjFfA, Å, • Bf_fCf, f<fAfbfv flfbfg [fN, dCf" fXfg [f<, , é, É, í AfRf" fg [f< fpflf<, í [flfbfg [fN] , d Ž g , ç
, Ü, • B [fT [frfX] f^ fu, í [' Ç % Å] , dNfŠfbfN, µ [AZŽ, É [Šf, [fg fAfNfZfX fT [frfX] , d' í d, µ, Ü, • B % æ - É, É • \
Ž' , , é, é Žw Ž' , É [] , Å, Å Af_fCf, f<fAfbfv flfbfg [fN, dCf" fXfg [f<, µ, Å, , ¾, ¾, ç [Bf_fCf, f<fAfbfv
flfbfg [fN, dCf" fXfg [f<, , é Ž è [f, í [Ú x, É, Å, ç, Å, í [A uf_fCf, f<fAfbfv flfbfg [fN (RAS)

.đfCf“fXfg□[f<.,.é□v,đŽQ□Æ,μ,Ä,,¾,¾,¾,¾□B

fRf“fgf□□[f< fpf|f<,ì [flfbfgf□□[fN] ,đŽg,Á,Ä□Af_fCf,,f<fAfbfv

flfbfgf□□[fN,đfCf“fXfg□[f<.,.é,Æ,«□A,Ü,½,½,fCf“fXfg□[f<Š®—¹CEă,É□AZŸ,ìfpf%□□□[f^,ì□□□□,ª•K—

v,Æ,È,é□é□†,ª, ,è,Ü,·□B,Ü,½□A□ufCf“f^□[flfbfg_fAfNfZfX.ÉŽg,xfŠf.□[fg_fAfNfZfX_fGf“fgfŠ,đ□

□□□□,·.é□v,ì□à~¾,É□],Á,Ä□Af_fCf,,f<fAfbfv flfbfgf□□[fN,ìCEÁ•É,ìfGf“fgfŠ,đ□□□□□,μ,È,¯,è,ì,È,è,Ü,¹,ñ□B

f|□[fg,ì□□□□

fCf“f^□[flfbfg_fT□[frfX_fvf□fofCf_,Æ,ì□Ú'±,ÉŽg,xf|□[fg,í□A[fl_fCf,,f<fAfEfg,ì,Ý] ,Ü,½,í [f_fCf,,f<fAfEfg,Æ'...

□M] ,É□□□□□,¾,è,Ä,ç,È,¯,è,ì,È,è,Ü,¹,ñ□B

flfbfgf□□[fN,ì□□□□

[flfbfgf□□[fN,ì□□□□] f_fCfAf□fo f{fbfNfX,ì [f_fCf,,f< fAfEfg_fvf□fgfRf<] ,ì [TCP/IP] f`fFfbfN

f{fbfNfX,í□Aflf“,É,μ,Ä,“,©,È,¯,è,ì,È,è,Ü,¹,ñ□B

fT[f]o[. ©,ç^³k,³,ê,Ä,ç,È,çCE`Ž®,Ä“üŽè,Ä,«,Ü,·B

“üŽè,μ,½fvf[fOf%of€,ìtf@fCf<,ð^³k%øðœ,μ,½,çAreadme ftf@fCf<,ðŠJ,ç,ÄAfvf[fOf%of€
,ìfCf“fXfg[f<,â\[-,ÉŠÖ,·,éî•ñ,ð“Ç,ÝA,»,ìŽwŽ!,É],Ä,Ä,,¾,¾,çBWindows 3.1 —
p,ÉÝEv,³,ê,½pfufŠfbfN fhf[fCf“ ftfgfEfffA,ì,Ü,Æ,ñ,Ç,íA%½,à•ïX,ð%Á,!,É,,Ä,à Windows NT
ä,Ä³í,ÉŽÄ[s,Ä,«,Ü,·B

fCf“fXfg[f<,Æ[-,ðl,!,½,çAWindows NT ,ìffXfNfgfbfv,©,çCf“f^ [flfbfg fc[f<,ð<N“®,Ä,«,é,æ,π
,É,È,è,Ü,·B

Windows NT ,Ä,ìfCf“f^ [flfbfg fc[f<,ìŽg—p—á,É,Ä,ç,Ä,íAufCf“f^ [flfbfg fZfbfVf#f“,ì—
áv,ðŽQÆ,μ,Ä,,¾,¾,çB

fCf" f^ [flfbfg fAfNfZfX, ÉŽg, xřřŠ, [fg fAfNfZfX fgf" fgřřŠ, ð [] - , , é

fCf" f^ [flfbfg fT [lrfX fvf [fofCf_ , Éf fCf_ , f < , , é, É, í Af fCf_ , f Afbfv
 flfbfg [] [fN, ÁfGf" fgřřŠ, ð [] - , , é, , é, í, È, è, Û, , ñ B, ±, ±, Å, í ACE Å • É, lf fCf_ , f Afbfv flfbfg [] [fN
 fgf" fgřřŠ, ð AfCf" f^ [flfbfg fT [lrfX fvf [fofCf_ , É, ì Ú' ±, ÉŽg — p, Å, «, é, æ, x, É [] - , , é • ù - @, É, Å, ç, Ä [] à -
 ¾, µ, Û, , B fCf" f^ [flfbfg fT [lrfX fvf [fofCf_ , É, ì Ú' ±, ÉŽg, xřřŠ, í A [] - CE ä, É [fT [fo []] f^ fu, É
 [ZfLj... řřřefB] f^ fu, ì Y' è, ð [] - , , é, , é, í, È, è, Û, , ñ B

fCf" f^ [flfbfg, Ö Ú' ±, , , é, ½, B, řřřŠ, ð [] - , , é

- 1 [f fCf_ , f Afbfv flfbfg [] [fN] fE fBf" fhfE, ì [V < K] , řřřŠ fbfN, µ, Û, , B
 - 2 %æ — É, É • Ž!, , é, é ŽwŽ!, É [] , Á, Å € [] , µ, Û, , B, Û, ½, í A " d ~ b ' , ð' ¼ Ú • Ö W, , , é [] è [] , í A [] Å [] % , É •
 Ž!, , é, é f fCf Af [] f [] fbfNfX, řřřŠ fbfN f { } fbfNfX, ð řřřŠ " , É, µ, Å [Š @ — 1]
 , řřřŠ fbfN, µ [A, » , í CE ä [] A Ž Ÿ, ì Ž è [] , É [] , ç, Û, , B
 - 3 [Ši - { } f^ fu, Å AfGf" fgřřŠ, ì - ¼ ' O (— á [F Internet) , ð " ü — í, µ, Å fCf" f^ [flfbfg fT [lrfX
 fvf [fofCf_ , " d ~ b " Ö [] , ð " ü — í, µ, Û, , B Ž Ÿ, É [] A Ž g — p, , é, řřřŠ, ð ' ð, µ, Û, , B
 - 4 [fT [fo []] f^ fu, Å AfT [fo [] , ì Ži — p, É, µ, Å [A [PPP] , Û, ½, í [SLIP] , ð ' ð, µ, Û, , B
 - 5 [flfbfg [] [fN fvf [fgfRf <] , ì [TCP/IP] f^ fbfNfX f { } fbfNfX, ð řřřŠ " , É, µ, Û, , B
 PPP , ð ' ð, µ, ½ [] è [] , í A [NetBEUI] f^ fbfNfX f { } fbfNfX, É [IPX] f^ fbfNfX f { } fbfNfX, řřřŠ, É, È, Á, Å, ç, é, ±
 , É, ð Š m " F, µ, Û, , B
 SLIP , ð ' ð, µ, ½ [] è [] , í A Ž @ " @ " I, É TCP/IP , a Ž g, í, è, Û, , B
 - 6 [PPP LCP Šg'É, ð Žg, x] f^ fbfNfX f { } fbfNfX, řřřŠ " , É, È, Á, Å, ç, é, ±, É, ð Š m " F, µ, Û, , B, ±, řřřŠ fbfN
 f { } fbfNfX, ð řřřŠ " , É, µ, Å, , , É [APPP] , ì [V < @ " \ , ð — — p, Å, «, Û, , B, ±, řřřŠ fbfN
 f { } fbfNfX, ð řřřŠ " , É, , é, í, í A řřřŠ " , É, , é, É, x, Û, ò Ú' ±, ð Š m — §, Å, «, È, ç [] è [] , É, ¾, , É, µ, Å, , ¾, ¾, ç [] B
 - 7 [TCP/IP, ì Y' è] , řřřŠ fbfN, µ, Û, , B
 - 8 fCf" f^ [flfbfg fT [lrfX fvf [fofCf_ , @ , ç IP fAfhfCfX, a Š , , è " — , Á, ç, è, Å, ç, é [] è [] , í A , » , řřřŠ fbfN, ð [IP
 fAfhfCfX, ð Ž w' è , , é] , ì [IP fAfhfCfX] f { } fbfNfX, É " ü — í, µ, Û, , B fAfhfCfX, ð Ž æ " ¾, µ, Å, ç
 , È, ç [] è [] , í A , , æ, řřřŠ fbfN, É, æ, Á, Å IP fAfhfCfX, ð Š , , è " — , Á, ç, è, é, ±, É, a, í, © , Á, Å, ç
 , é [] è [] , í A [fT [fo [] , a Š , , è " — , Á, ½ IP fAfhfCfX] , řřřŠ fbfN, µ, Û, , B
 - 9 fCf" f^ [flfbfg fT [lrfX fvf [fofCf_ , @ , ç [ADNS fT [fo [] , ì IP fAfhfCfX, a WINS fT [fo [] , ì IP
 fAfhfCfX, a Š , , è " — , Á, ç, è, Å, ç, é [] è [] , í A , » , řřřŠ fbfN, ð [f [] [f [] [f [] fAfhfCfX, ð Ž w' è , , é]
 , ì řřřŠ fbfNfX, É " ü — í, µ, Û, , B fAfhfCfX, a Š , , è " — , Á, ç, è, Å, ç, é, ç [] è [] , í A , , æ, řřřŠ fbfN, É, æ, Á, Å f [] [f []
 fT [fo [] , řřřŠ fbfN, ð Š , , è " — , Á, ç, è, é, ±, É, a, í, © , Á, Å, ç, é [] è [] , í A [fT [fo [] , a Š , , è " — , Á, ½ f [] [f []
 fT [fo [] [fAfhfCfX] , řřřŠ fbfN, µ, Û, , B
 - 10 [řřřŠ, [fg flfbfg [] [fN ä , řřřŠ fbfN f { } fbfNfX, ð řřřŠ " , É, È, Á, Å, ç, é, ±
 , É, ð Š m " F, µ, Û, , B
 - 11 CE _ - ñ, µ, Å, ç, é fCf" f^ [flfbfg fT [lrfX fvf [fofCf_ , Å fwbf [] [] [] k, a Ž g, í, è, Å, ç, é [] è [] , í A [IP
 fwbf [] [] [] k, ð Ž g, x] f^ fbfNfX f { } fbfNfX, ð řřřŠ " , É, µ, Û, , B
 - 12 [OK] , řřřŠ fbfN, µ [A Ž Ÿ, É [f fCf_ , f <] , řřřŠ fbfN, µ, Û, , B
- ' [fCf" f^ [flfbfg fT [lrfX fvf [fofCf_ , É, æ, Á, Å, í AfZfLj... řřřřefB Y' è, É • ì X, ð % Å, , é • K —
 v, a , , é [] è [] , à , , è, Û, , B fCf" f^ [flfbfg fT [lrfX fvf [fofCf_ , É [] Ú' ±, , , é, É [A
 % , ¾, ç, © , í CE " , řřřŠ fbfNfX, Û, ½, í " F [] [] [] s, í, è, Û, , B fT [fo [] , Ö, řřřŠ fbfNfX, ì Ž è ' ±, « , í ACE _
 ñ, µ, ½ fCf" f^ [flfbfg fT [lrfX fvf [fofCf_ , @ , ç " , , ç, è, Å, ç, é, í, , Å, , B fCf" f^ [flfbfg fAfNfZfX
 fvf [fofCf_ , É f [fofCf_ , , é, ½, B, É RAS , ð [] - , , é, É, í A [ZfLj... řřřřefB] f^ fu, ð Ž g, ç, Û, , B

fřřřŠ, [fg fT [fo [] , Á, ì " F [] [] , ½, B, řřřŠ, ð [] - , , é, É, í

- 1 [f fCf_ , f Afbfv flfbfg [] [fN] fE fBf" fhfE, ì [, » , ì ' ¼] , řřřŠ fbfN, µ, Û, , B
- 2 [fgf" fgřřŠ, Éf, řřřŠ, ì Ö W] , řřřŠ fbfN, µ, Û, , B
- 3 [ZfLj... řřřřefB] f^ fu, Å AfCf" f^ [flfbfg fT [lrfX fvf [fofCf_ , É Ž w' è , , é, ½ " F [] [] • ù - @, ð ' ð, µ, Û, , B

fCf" f^ [flfbfg fT [frfX fvf ofCf_ ,i' ½, ,Á, í AfNfŠfA fefLfXfg, đŽg, í, È, ¯, ê, î, È, è, Û, ¹, ñ B" F Ø • û-
@, ², í, ©, ç, È, ç, ê, í, í AfNfŠfA fefLfXfg, đŠÛ, Þ" C^ Ó, ì" F Ø, đŽó, ¯ • t, ¯, é] , đ' ð, µ, Ä, , ¾, ³, ç B

4 fzLj... fŠfefB, ì Ý' è, ð' ð, µ, ½, ç A [OK] , đfNfŠfbfN, µ, Û, · B

' [fNfŠfA fefLfXfg, đŠÛ, Þ" C^ Ó, ì" F Ø, đŽó, ¯ • t, ¯, é] , đfNfŠfbfN, , é ê, í AfT [frfX
fvf ofCf_ , Ò, ì f ofOf" Ž è, ¯, æ, Ñ • K—v, ÈfRf} f" fh, à, í, ©, Á, Ä, ç, È, ¯, ê, î, È, è, Û, ¹, ñ B
fCf" f^ [flfbfg fT [frfX fvf ofCf_ , ì f ofOf" Ž è, ¯, æ" K Ø, É' è < ` , ³, ê, ½, à, ì, Á, , ê, í A • K—
v, ÈfRf} f" fh, đf ofOf" Žž, Éž © " ® " I, ÉŽÀ s, , é XfNfŠfvg, đ Switch.inf ftj @fCf<, É ì ñ, Á, «, Û, · B \
systemroot\System32\RAS\Switch.inf ftj @fCf<, É XfNfŠfvg
fZfNfVf} f" , ð ñ, , , é, Æ A ñ, µ, ½ XfNfŠfvg, đ [fXfNfŠfvg] f^ fu, Á' ð, Á, «, Û, · B f ofOf"
fXfNfŠfvg, ì ñ, · û-@, ì Ú ×, É, Á, ç, Ä, í A u, » , ì' ¼, ì f f ofCfX frf} f" fh ftj @fCf< (.INF)
, đŽg, ² v, đŽQ Æ, µ, Ä, , ¾, ³, ç B

Windows NT Server ,đfCf“f^[]flfbfg fAfNfZfX,ì'ñ<ÿ,ÉŽg,±

f<[]f^[][,ÆfCf“f^[]flfbfg fT[]lfrfX fv[]fofCf_,đ'g,ÿ[]±,í,¹,Ä~—p,·,é,Æ[]AWindows NT Server ,í[]AfŠf,[]f[]g fNf%ofCfAf“fg,É,Æ,Á,ÄfCf“f^[]flfbfg,Ö,lfQ[]lfgEfffC,Æ,µ,Ä<@“\,µ,Û,·[]B[]Á'á 256 ,lfNf %ofCfAf“fg,³[]A^ê"É,ì"d~b%oñ[]ü[]AISDN %oñ[]ü[]AX.25[]APPTP ,ì,ç,·,é,©,đŽg,Á,Ä RAS fT[]fo[][,Éf_jCf,,f<fCf“ ,Á,«.,Ü,·[]BfNf%ofCfAf“fg,í[]APPP ,É[]€' ,µ,½" C^Ó,lf[]ftfgfEfffA,Ü,½,í Windows NT fRf“fsf...[]f^ ,đ[]AfCf“f^[]flfbfg fuf%ofEfu,Æ,ç,Á,µ,á,ÉŽg,Á,Ä[]AfCf“f^[]flfbfg,ÉfAfNfZfX,µ,Û,·[]B

fCf“f^[]flfbfg[]Ú'±

'É[]í,í[]Af[]f[]f[]U[][,lfTfCf[]g,ÆfCf“f^[]flfbfg,Æ,ì[]Ú'±,í[]Af[]lfbfgf[]f[]N[]ä,lf<[]f^[][],Ö,ì[]ê—p%oñ[]ü,đ %oì,µ,Ä[]Ú'±,³,è,Û,·[]Bff[]f^ ,í[]AfCf“f^[]flfbfg[]Af<[]f^[][],Ö,ì[]ê—p%oñ[]ü[]Af<[]f^[][]Af[]f[]f[]f< flfbfgf[]f[]N[]A,“ ,æ,Ñ RAS fT[]fo[][,đ%oì,µ,Ä[]A[]ÄCEä,ÉfŠf,[]f[]g fNf%ofCfAf“fg,É"']—,³,è,Û,·[]B

fCf“f^[]flfbfg fAfNfZfX,đ[]s,±,½,ß,ì•W[]€“I,È—v[]E[]

Windows NT Server ,đŽg,Á,ÄfCf“f^[]flfbfg fAfNfZfX,đ'ñ<ÿ,·,éfvfXfef€,ì•W[]€“I,È— v[]E[],íŽÿ,ì,Æ,“ ,è,Ä,·[]B

- fCf“f^[]flfbfg fT[]lfrfX fv[]fofCf_,Æf[]f[]f< flfbfgf[]f[]N[]ä,lf<[]f^[][],đ[]Ú'±,·,é[]ê—p%oñ[]ü ('É[]MŽ-<ÆŽÖ,É,æ,è'ñ<ÿ,³,è,Û,·)[]B
 - f[]f[]f[]f< flfbfgf[]f[]N[]ä,lf<[]f^[][]B
 - f[]f[]f[]f< fGfŠfA flfbfgf[]f[]N[]BfZfLf...fŠfefB,đŠm•Ú,·,é,½,ß[]A,±,lf[]f[]f[]f< fGfŠfA flfbfgf[]f[]N,í[]Af[]fCf“ ,lf[]f[]bfgf[]f[]N,© ,ç•ª—£,³,è,Ä,ç,½,è[]A,Û,½,í^ê"É,É "ftf[]@fCfAfEfH[]f<" ,ÆCEÁ,ì,è,é"Á•É,ÉfZfLf...fŠfefB'í[]đ,³[]s,í,è,Ä,ç,é[]ê[]±,ª ,è,Û,·[]B
 - TCP/IP ,“ ,æ,Ñ RAS ,áfCf“fXfg[]f<,³,è,½ Windows NT Server ,đŽÀ[]s,·,éRf“fsf...[]f^[]B
 - ;[]" ,lfŠf,[]f[]g fNf%ofCfAf“fg,Æ,ì[]Ú'±,đfTf[]f[]g,·,é,½,ß,ì RAS fT[]fo[][]ä,lf}f<f`f[]f[]g fv[]fŠfAf< fAf_fvf^[]B
 - []ê—p'É[]Mfn[]f[]hfEfffA (ISDN fAf_fvf^,Û,½,í X.25 fAf_fvf^)[]B
 - f[]f[]f[]f< fGfŠfA flfbfgf[]f[]N[]ä,ì DHCP fT[]fo[][,đ%oì,µ,ÄS,,,è"—,Ä,ç,è,½,©[]A,Û,½,í RAS fT[]fo[][,đ %oì,µ,Ä[]Á"i,ÉS,,,è"—,Ä,ç,è,½—LCEø,ÉfCf“f^[]flfbfg IP fAfhf[]E[]f[]X[]B
 - DNS (Domain Name System[]F fhf[]fCf““ f[]f[]f[]€ fVfXfef€) fT[]fo[][,ì IP fAfhf[]E[]f[]X[]BDNS fT[]fo[][,í[]Af[]f[]f[]f< fGfŠfA flfbfgf[]f[]N[]ä,É ,é[]ê[]±,Æ[]AfCf“f^[]flfbfg[]ä,É ,é[]ê[]±,ª ,è,Û,·[]B
- Ú[]×,É,Ä,ç,Á,í[]A[]ufCf“f^[]flfbfg fAfNfZfX,đ'ñ<ÿ,·,é,½,ß,ì Windows NT f[]ftfgfEfffA,đfCf“fXfg[]f<,µ[] []=,·,é[]v,đŽQ[]Æ,µ,Ä,,¾,³,ç[]B

,Æ,É,æ,è□A,Ü,Á,½,“¬,¶□Ý'è,ð•j□»,·,é,±,Æ,ª,Å,«,Ü,·□B

RAS flfbfgf□□[fN,ì□□¬

[flfbfgf□□[fN,ì□□¬] f_fCfAf□fO f{fbfNfX,ì [fT□[fo□[,ì□Ý'è] ,ì [TCP/IP] f`fFfbfN
f{fbfNfX,ì□AfIf“ ,É,µ,Ä,“,©,È,¬,ê,Î,È,è,Ü,¹,ñ□B,Ü,½□AfZfLf...fŠfefB,ì—vCE□,ð-ž,½,·,Æ“¬Žž,ÉfŠf,□[fg fNf
%ofCfAf“fg,ìŽ□,Á<@“\,à”½%of,·,é,æ,α,È^Ã□+%o»,ì□Ý'è,ð'!ð,µ,È,¬,ê,Î,È,è,Ü,¹,ñ□BŠe^Ã□+%o»,ì□Ý'è,É,Á,ç
,Ä,ì□A[flfbfgf□□[fN,ì□□¬] f_fCfAf□fO f{fbfNfX,ìfwf<fv,ðŽQ□Æ,µ,Ä,,¾,¾,ç□B

RAS —p,ì TCP/IP ,ì□□¬

fCf“f^□[flfbfg,Æ□Ú'±,³,ê,½f<□[f^□[,ìflfbfgf□□[fNã,É'u,©,ê,Ä,ç,é,í,, ,È,ì,Å□ATCP/IP fNf
%ofCfAf“fg,ìflfbfgf□□[fN'S'ì,ÉfAfNfZfX,Á,«,é,æ,α,É,µ,È,¬,ê,Î,È,è,Ü,¹,ñ□BfZfLf...fŠfefBã,ì—□—R,Å□A,±
,ìflfbfgf□□[fN,ì□Af□fCf“ ,ìflfbfgf□□[fN,©,ç•ª—£,³,ê,Ä,ç,é□ê□‡,ª , ,é,±,Æ,É'□^Ó,µ,Ä,,¾,¾,ç□BTCP/IP
flfbfgf□□[fN,ª DHCP ,ðŽg,Á,Á,ç,é□ê□‡,ì□ADHCP fT□[fo□[,ªfCf“f^□[flfbfgã,Á,à—LCEø,È IP
fAfhfCEfX,ð'ñ<ÿ,Á,«,é,±,Æ,ðŠm“F,µ,È,¬,ê,Î,È,è,Ü,¹,ñ□B,Á,«,È,ç□ê□‡,ì□AfCf“f^□[flfbfgã,Á—LCEø,È IP
fAfhfCEfX,ðŽ□,Á,Á“ì,ÈfAfhfCEfX fv□[f<,ð'ñ<ÿ,µ,È,¬,ê,Î,È,è,Ü,¹,ñ□B,Ü,½□AfŠf,□[fg fNf%ofCfAf“fg,ª“ÆŽ©,ì
IP fAfhfCEfX,ðŽ□,Á,æ,α,É,·,é,±,Æ,à,Á,«,Ü,·□B,±,ì•û-@,ì□Aft□[fU□[,ª“Á'è,ìfAfhfCEfX,ðŽ□,Á,±
,Æ,ð'z'è,µ,Ä,ç,éfAfvfŠfP□[fvf‡f“ ,ð□ARAS □Ú'±,ð%oî,µ,ÄfNf%ofCfAf“fg'α,© ,çŽÀ□s,·,é□ê□‡,È,Ç,É•Ö—
~,Å,·□B

PPP ,ÆfŠf,□[fg fAfNfZfX

PPP (Point-to-Point Protocol□F flfCf“fg fc□[flfCf“fg fvf□fgfRf<) ,í□A^Ù,È,éxf“f_□[,ª'ñ<ÿ,·,éŠf,□[fg fAfNfZfX flftfgfEjFfA,ì'ŠCEY%o^—p,ð%oÅ“\,É,·,é•W□€,lfvf□fgfRf< fZfbfg,Å,·□BWindows NT ,lf_fCf,,f<fAfbfv flfbfgf□□[fN,í□A<ÆŠE•W□€,ì PPP fT□[fo□[,ð%oî,μ,ÄfŠf,□[fg flfbfgf□□[fN,Éf_fCf,,f<fCf“ ,Ä,«,Ü,·□B,Ü,½□APPP ,É,æ,è□AWindows NT Server RAS ,ðŽÀ□s,·,éRf“fsf... □[f^,à□APPP <KŠi,É□€<',μ,½,Ù,©,lfxf“f_□[,lfŠf,□[fg fAfNfZfX flftfgfEjFfA,©,ç,ìCEÄ,Ñ□o,μ,ðŽó□M,μ□A,± ,è,ç,Éflfbfgf□□[fN fAfNfZfX,ð'ñ<ÿ,Ä,«,Ü,·□B

,Ü,½□APPP <KŠi,É,æ,Á,Ä□A^È'O,ì<KŠi (SLIP ,È,Ç) ,Ä,íŽg—p,Ä,«,È,ç□Å□V,ì<@“\,àŽg—p,Ä,«,Ü,·□BPPP ,Ä,í□A^F□Ø,ì^Ä□+%o»,ªTfj□[fg,³,è,Ä,“ ,è□A,Ü,Æ,ñ,Ç,ì PPP ,ìŽA'•,Ä,lf□fOfj“Žè□‡,ð,·,×,ÄŽ©“®%o»,·,é,± ,Æ,ª,Ä,«,Ü,·□B^È'O,ì<KŠi,Ä,í□AfZfLf...fŠfefB<@“\,í,Ü,Æ,ñ,Ç,È,□Af□fOfj“ ,lf^□[f~fj< f,□[fh,Å□s,í,È,“ ,è,î,È,è,Ü,¹,ñ□B

,Ü,½□APPP ,í•i□“ ,ì LAN fvf□fgfRf<,ðTfj□[fg,μ,Ä,ç,Ü,·□Bf_fCf,,f<fAfbfv flfbfgf□□[fN,Ä,í□AfŠf,□[fg fNf %ofCfAf“fg,Æ RAS fT□[fo□[,ì,Ç,ì,ç,É,à□Afifbfgf□□[fN fvf□fgfRf<,Æ,μ,Ä TCP/IP□AIPX□ANetBEUI ,ì,ç ,·,è,àŽg—p,Ä,«,Ü,·□B

PPP ,í□A,Ü,Æ,ñ,Ç,lfŠf,□[fg fAfNfZfX fRf“fsf...□[fefBf“fo,ìŽã—v,È<KŠi,É,È,Á,Ä,ç,·,Æ—\z,³,è,Ä,ç,Ü,·□B ŠÖ~A□€—Ú

PPP ,ì'€□[,Æfvf□fgfRf<

PPP ,ÄfTfj□[fg,³,è,Ä,ç,é RFC

fCf“f^□[flfbfg□Ú'±,É PPP ,ðŽg,ª

fCf“f^[]f]fbfg[]Ú'±,É PPP ,đŽg,ꜛ

PPP []Ú'±,í[]AWindows NT ,ìŠù'è,ì[]Ú'±•û-@,Å,·[]B

Windows NT ,ìf_fCf,,f<fAfbfv f]fbfgf[]fN,Å,í[]AfŠf,[]fg,©,ç,ì PPP Ā,Ñ[]o,μ,đfTf][]fg,·,é,½,β,É[]A“Á,É•K
—v,Æ,È,é[]\[]-[]ì<Æ,Í, ,è,Û,¹,ñ[]Bf_fCf,,f<fAfbfv f]fbfgf[]fN,³μ,[]\[]-³,ê,Ä,ç,ê,í[]APPP []Ú'±
,ìf]SfVfG[]fVf†f“ ,íŽ©“@“I,É[]s,í,ê,Û,·[]B

fŠf,[]fg,ì PPP fT[]fo[][,Ö,ìf_fCf,,f<,É Windows NT
,đŽg,ꜛ[]ê[]‡,í[]A'É[]í,í[]ASù'è,ì[]Ý'è,³Å“K,È[]Ý'è,Å, ,è[]A[]\[]-³,đ[]s,ꜛ•K—v,Í, ,è,Û,¹,ñ[]B,½,¾,μ[]APPP
fT[]fo[][,Éf_fCf,,f<,·,éŠef_fCf,,f<fAfbfv f]fbfgf[]fN fGf“fgfŠ,ÉŽg,ꜛ LAN fvf[]fgfRf<,đĀ•É,É[]\[]-³,·,é,±
,Æ,³,Å,«,Û,·[]B

f_fCf,,f<fAfEfg[]Ú'±—p,É PPP ,đ[]\[]-³,·,é,É,Í

- 1 f_fCf,,f<fAfbfv f]fbfgf[]fN,Å[]A“d~b' fGf“fgfŠ,đ'Í'đ,μ[]AZŸ,É [,»,ì'¼) ,đfNfŠfbfN,μ,Û,·[]B
- 2 [fGf“fgfŠ,Æf,fff€,ìfvf[]pfefB,ì•Ò[]W] ,Û,½,Í [fGf“fgfŠ,Æf,fff€,ìfvf[]pfefB,ì•i[]>] ,đfNfŠfbfN,μ,Û,·[]B
- 3 [fT[]fo[][] f^fu,Å[]AfT[]fo[][,ìŽí—p,Æ,μ,Ä [PPP] ,đ'Í'đ,μ,Û,·[]B
- 4 [f]fbfgf[]fN fvf[]fgfRf<] ,ì [TCP/IP] f`fFbfN f{fbfNfX,đf]f“ ,É,μ,Û,·[]B
- 5 TCP/IP ,ì[]Ý'è,đ[]\[]-³,·,é,É,í[]A[TCP/IP ,ì[]Ý'è] ,đfNfŠfbfN,μ,Û,·[]B
- 6 [fT[]fo[][] f^fu,ì [PPP LCP Šg'£,đŽg,ꜛ] f`fFbfN f{fbfNfX,đf]f“ ,É,μ,Û,·[]B PPP []Ú'±,ÅĀep'±,μ,Ä-â'è,³-
[]¶,·,é[]ê[]‡,É,³/₄,[]Afgf%ofuf<fVf...[]fefBf“fO,ìŽè'i,Æ,μ,Ä[]Ý'è,đ•İ,!,Ä,,¾,³,ç[]B
- 7 PPP ,ÉŽg,ꜛ LAN fvf[]fgfRf<,đ'Í'đ,μ,½,ç[]A[OK] ,đfNfŠfbfN,μ,Û,·[]B
,±,è,Å[]A,±,ìfGf“fgfŠ,đŽg,Á,Ä PPP fT[]fo[][,Éf_fCf,,f<,·,é[]€“đ,³,Å,«,Û,μ,½[]B

PPP ,i'€□i,Æfvf□fgfRf<

PPP □Ú'±,í□APPP ,Áftf□□fg,³,ê,Ä,ç,é RFC ,Á'è,ß,ç,ê,½<KŠi,É□€<' ,μ,Ä,ç,È, ,ê,Î,È,è,Ü,¹,ñ□B,±,±,Á,í□APPP ,i'€□i•ù-@,Æ□APPP □Ú'±,ÁŽg,í,è,éfvf□fgfRf<,ìŠT-v,ðà-¾,μ,Ü,·□B

PPP ,lf_fCf,,f<fAfbfvŽè□‡

fŠf,□□fg PPP ft□□fo□□[,Æ,ì□%oSú□Ú'±,ªŠm—š,³,ê,½,ç□APPP □Ú'±,ðŠm—š,·,é,½,ß,ÉŽŸ,ì,æ,κ ,ÉfJfSfVfG□□[fvf#“ ,ª□s,í,è,Ü,·□B

- **LCP (Link Control Protocols□F fŠf“fN□§CEäfvf□fgfRf<)** ,lfJfSfVfG□□[fvf#“□□BLCP ,í□AfŠf“fN fpf%of□□[f^ , ,æ,ÑftfCE□□[f~f“fo fpf%of□□[f^ (□Á'äftfCE□□[f€ ftfCfY,È,Ç) ,ìŠm—š,Æ□□~ ,ÉŽg,í,è,Ü,·□B
- **F□Øfvf□fgfRf<,lfJfSfVfG□□[fvf#“□□B** F□Øfvf□fgfRf<,í□AfŠf,□□fg fAfNfZfX ft□□fo□□[,ª□^— □,Á,«,éJZfLf...fŠfefBCEŸ□ ,lfCEfxf<□A, , ,æ,Ñft□□fo□□[,ª•K— v,Æ,·,éCEfxf<,ìCE^è,ÉŽg,í,è,Ü,·□BfJfSfVfG□□[fvf#“ ,ª%oÄ^ ,ÉJZfLf...fŠfefB fCEfxf<,í□AfNfŠfA fefLfXfg fpfXf□□[fh,É,æ,é“F□Ø,©,ç^Ä□+%o» ,³,ê,½“F□Ø,âR□□[f<fofbfN fZfLf...fŠfefB,Ü,Á□A'½Šò,É“n,è,Ü,·□B
- **NCP (Network Control Protocols□F flfbfgf□□[fN□§CEäfvf□fgfRf<)** ,lfJfSfVfG□□[fvf#“□□BNCP ,í□AIP□AIPX□A, , ,æ,Ñ NetBEUI ,É'í,μ,Ä□A,»,ê,¼,ê^Ü,È,éflfbfgf□□[fN fvf□fgfRf<fpf%of□□[f^ ,ðŠm—š,μ□ □~ ,·,é,½,ß,ÉŽg,í,è,Ü,·□B,±,lfJfSfVfG□□[fvf#“ ,É,í□AfVf□fgfRf< fwfbf_□[^³□k,lfJfSfVfG□□[fvf#“□A, , ,æ,Ñ^³□k□§CEäfvf□fgfRf<,lfJfSfVfG□□[fvf#“ ,ªŠÜ,Ü,è,Ü,·□B

flfSfVfG□□[fvf#“ ,ªŠ@—¹,μ,½□Ú'±,í□Aft□□[fU□□[,É,æ,é%oñ□ü ,ì□Ø'f□AfAfCfhf<ŽŽŠÖ,ìf^fCf€fAfEfG,É,æ,é %oñ□ü,ì□Ø'f□AŠÇ—□ŽÖ,É,æ,é%oñ□ü,ì□Ø'f□A□C•œ•s%oÄ^ ,ÉfŠf“fN fGf%o□□[,ì“□□l,È,Ç,ì—□—R,Á %oñ□ü,ì□Ú'±,ª%oð□œ,³,ê,é,Ü,Á,í□AfAfNfefBfu,È,Ü,Ü•ÜŽ□,³,ê,Ü,·□B

PPP ftfCE□□[f~f“fo

PPP ,lfJfCE□□[f~f“fo,í□Aft□□[f^ ,ª□fCfh fGfŠfA flfbfgf□□[fN□ä,ð“^— ,³,ê,é'O,lf□□[f^ ,lfJfVfZf<%o» ,ì•ù- @,ð'è< ,μ,Ü,·□BPPP •W□€ ,lfJfCE□□[f~f“foCE`Ž@ ,ðŽg,κ,Æ□A,Ç,lf□□[f□□[,lfŠf,□□fg fAfNfZfX fl ftfgfEfFfA,à□APPP <KŠi,É□€<' ,μ,½'¼,ì ,ç,ä,éŠf,□□fg fAfNfZfX flftfgfEfFfA,Æ'É□M,μ,Ä□Aft□□[f^ fpfPfbfg,ð“FŽ` ,·,é,±,Æ,ª,Ä,«,Ü,·□B

PPP ,Á,í□AfVfŠfAf<%oñ□ü□AISDN %oñ□ü□A, , ,æ,Ñ X.25 ,É,í HDLC ftfCE□□[f~f“fo,ªŽg,í,è,Ü,·□BWindows NT ,Á,í□AfVfŠfAf<%oñ□ü□AISDN %oñ□ü□A, , ,æ,Ñ X.25 ,lf□□[f^“j'— ,É,í HDLC ftfCE□□[f~f“fo,ªŽg,í,è,Ü,·□B

flfbfgf□□[fN□§CEäfvf□fgfRf<

flfbfgf□□[fN□§CEäfvf□fgfRf<,í□AIP□AIPX□A, , ,æ,Ñ NetBEUI ,É'í,μ,Ä□A,»,ê,¼,ê^Ü,È,éflfbfgf□□[fN fvf□fgfRf< fpf%of□□[f^ ,ðŠm—š,μ□□~ ,μ,Ü,·□B

IPCP (Internet Protocol Control Protocol□F fCf“f^□□[flfbfg fvf□fgfRf<□§CEäfvf□fgfRf<)	IPCP ,í□AfŠf“fN,ì—¼'[,Á IP fvf□fgfRf<,ì□□~□A—LCEø %o»□A, , ,æ,Ñ-³CEø %o» ,ð□s,κ ,½,ß,ÉŽg,í,è,Ü,·□B
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IPXCP (Internet Packet Exchange Control Protocol□F fCf“f^□□[flfbfg fpfPfbfgCEðŠ-□§ CEäfvf□fgfRf<)	IPXCP ,í□A□Ú'±,ì—¼'[,Á IPX fvf□fgfRf< f,fWf... □[f<,ì□□~□A—LCEø %o»□A, , ,æ,Ñ-³CEø %o» ,ð□s,κ ,½,ß,ÉŽg,í,è,Ü,·□BIPXCP ,í□APPP ,ìŠef□□[f□□[,É,æ,è□L,- ŽÄ'• ,³,ê,Ä,ç,Ü,·□B
---	---

IPX WAN
 fvf□fgfRf<,í□ANovell ,ì
 IPXCP
 'ä'Öfvf□fgfRf<,Á,·□BIPX

WAN ,íAIPXCP
 ,Æ,ÍCEYŠ·□«,^a, ,è,Ü,¹,ñ□B,
 ç,.,ê□AIPX WAN ,Æ IPXCP
 ,^aCEY,ç
 ,É•à,ÝŠñ,Á,Ä□A□fCfh
 fGfŠfA flfbfgf□□[fN,Á,ì IPX
 flfbfgf□□[fN□□→,ì 1
 ,Á,ì<KŠi,ð'ñ<Ý,·,é%oÁ"\
 □«,^a, ,è,Ü,·□B

Windows NT
 ,íA□A□»□Ý,lfŠf,□[fg
 fA□NfZfX f\
 ftfgfE□fA,ì'á•"•^a,ÉŽÀ'•,³
 ê,Ä,ç,é IPXCP ,ðfTf|
 □[fg,μ,Ä,ç,Ü,·□BIPX WAN
 ,ÍfTf|□[fg,μ,Ä,ç,Ü,¹,ñ□B

NBF CP
 (NetBIOS
 Frames Control
 Protocol□F
 NetBIOS
 ftjCE□[f€□\$CEäfv
 f□fgfRf<)

NBF CP ,íA□□Ú'±,ì—¼'[,Á
 NetBEUI fvf□fgfRf< f,fWf...
 □[f<,ì□□→□A—LCEø
 %o»□A, ",æ,Ñ—³CEø
 %o»»,ð□s,±
 ,½,ß,ÉŽg,í,è,Ü,·□BNBF CP
 ,í□AMicrosoft ,^añ□¥,·,é
 NetBEUI □□→—
 pfvf□fgfRf<,Á,·□BNBF CP
 ,í□AIETF (Internet
 Engineering Task Force)
 ,É,æ,Á,Äfhf
 %oftfg,^a□ì□→,³,è,Ä,ç,Ü,·□B

"F□Øfvf□fgfRf<

"F□Øfvf□fgfRf<,lfSfVfG□[fVf#f",í□AfŠf"fN,ì•iŽ,æCE^è,³,è,½'¼CEã□Aflfbfgf□□[fN'w,lfSfVfG□[fVf#f",ì'O,
 É□s,í,è,Ü,·□B

PAP
 (Password
 Authentica-
 tion Proto-
 col□F
 fpfXf□□[fh"□F□
 Øfvf□fgfRf<)

PAP ,í□AfNfŠfA fefLfXfg
 fpfXf□□[fh,ðŽg,±□Á,à'P□f,È"
 F□Øfvf□fgfRf<,Á,·□B'É□í□A,±
 ,lfvf□fgfRf<,lfSfVfG□[fVf#f",
 í□AfŠf,□[fg
 f□□[fNfXfe□[fVf#f",ÆfT□[fo□[
 ,^a□A,æ,è^À'S,ÈCE`Ž®,Á,ìŠm
 "F,lfSfVfG□[fVf#f",ð□s,±
 ,Æ,^a,Á,«,È,ç□è□#f,É□s,í,è,Ü,·
 □BWindows NT RAS
 fT□[fo□[í□AfNfŠfA fefLfXfg
 fpfXf□□[fh,ðŽg,í,·□A□,fCEfxf<
 ,lfZfLf...fŠfefB,ð—
 LCEø,É,·,é,æ,±
 ,É□Ý'è,Á,«,Ü,·□B

CHAP

CHAP ,í□A^Ä□+%o»,³,è,½

(Challenge-Handshake Authentication Protocol) "ü—Í— v<□fnf"fhfVfFf CfN" F□Øfvf□f gfRf<)

%ž“š,Æ,Æ,à,É□A“ü—Í—v<□
%ž“š,žg,ç,Ü,·□B
CHAP ,žg,æ,Æ□A^Ù,È,éŽí—
p,ì^Ä□+%»fAf<fSfSfYf€ ,žg
—p,Ä,«,Ü,·□BMicrosoft RAS
,Ä,Í□AfNf
%fCfAf“fg,ÆfT□[fo□[,ì—
¼•û,ª Windows NT RAS
,žg,Ä,Ä,ç,é□é□#,Í□ADES
^Ä□+%» ,ªŽg,í,è,Ü,·□BRAS
fNf
%fCfAf“fg,Í□A¼,ìf□□[fj□[,ìf
Šf,□[fg fAfNfZfX
fT□[fo□[,É□Ú'± ,·,é,Æ,«,É,Í
MD5 ^Ä□+
%» ,ðfSfVfG□[fVf#f“ ,·,é,±
,Æ,à,Ä,«,Ü,·□BWindows NT
RAS fT□[fo□[,Í□ADES ^Ä□+
%» ,¾, ¯ ,ð'ñ<Ÿ,µ□A¼,ìf□□[fj
□[,ìfŠf,□[fg fAfNfZfX fNf
%fCfAf“fg ftfgfEfffA,Æ
MD5 ,ìfSfVfG□[fVf#f“ ,Í□s,ç
,Ü,¹,ñ□BMD5 ,Í□AŠeŽí PPP
f□□[fj□[,ª^Ä□+
%» "F□Ø,Éžg,Ä,Ä,ç,é^Ä□+
%» •ûŽ®,Ä,·□B
Windows NT ,Í□A,Ù,©,ì
Windows NT fRf“fsf...
□[f^ ,Æ'É□M,·,é,Æ,«,É,Í•K, ,^
Ä□+
%» "F□Ø,ìfSfVfG□[fVf#f“ ,ð
□s,ç,Ü,·□BfT□[fh
fp□[fefB□» ,ìfŠf,□[fg fAfNfZfX
fT□[fo□[f\
ftfgfEfffA,Ü,½,ìfŠf,□[fg
fAfNfZfX fNf%fCfAf“fg f\
ftfgfEfffA,Æ□Ú'±
,·,é□é□#□AfT□[fh
fp□[fefB,ì□» •i,ª^Ä□+
%» "F□Ø,ðfTfj□[fg,µ,Ä,ç
,È, ¯ ,è,Í□ARAS ,Í□AfNfŠfA
fefLfxfg,ì" F□Ø,ìfSfVfG□[fVf
#f“ ,ð□s,æ□é□#,ª ,è,Ü,·□B

PPP ,ÄfTfj□[fg,ª,è,Ä,ç,é RFC

fŠf,□[fg fAfNfZfX fvf□fgfRf<,ì<KŠi,Í□AIETF , ,æ,Ñ,»,ì¼,ìf□□[fLf“fo fOf<□[fv,ªCEö•z,µ,Ä,ç,é RFC (Requests For Comments) ,Ä'è< ,ª,è,Ä,ç,Ü,·□BWindows NT RAS ,ìCE>Ÿ,ìfo□[fWf#f“ ,Ä,Í□AZŸ,ì RFC ,ðfTfj□[fg,µ,Ä,ç ,Ü,·□B

- RFC 1549 HDLC ftfCE□[f€“à,ì PPP

- RFC 1552 PPP IPXCP (Internetwork Packet Exchange Control Protocol) fCf“f^[]flfbfg[]fN fpfPfbfgCEđŠ·[]\$CEäfvf[]fgfRf<)
- RFC 1334 PPP “F[]Øfvf[]fgfRf<
- RFC 1332 PPP IPCP (Internet Protocol Control Protocol) fCf“f^[]flfbfg fvf[]fgfRf<[]\$CEäfvf[]fgfRf<)
- RFC 1661 LCP (Link Control Protocol) fŠf“fN[]\$CEäfvf[]fgfRf<)
- RFC 1717 PPP f}f`fŠf“fN fvf[]fgfRf<

PPP Ú'±,lfgf%ofuf:fvf...[fefBf"fo

PPP fT[fof[ÉÚ'±,Á,«,Ü,¹,ñB

PPP ,ðŽg,Á,ÄfT[fof[ÉÚ'±,Á,«,È,çê#A,Ü,½,Íšf,[fg fRf"fsf...[f^,ªÚ'± ,ðØ'f,·,éê#Í,ÍAÚ'±æ,lfT[fof[ª LCP ,ÌŠg'£<@"\,ðfTf[fg,µ,Ä,ç,È,ç%Å"\«ª, ,è,Ü,·B[PPP LCP Šg'£,ðŽg,κ] f`fFbfN f{fbfNfX,ðfift,É,µ,Ä,,¾,¾,çB

LCP Šg'£<@"\,Ì—v<[ð'tŽ~·,·,é,É,Í

- 1 fšf,[fg,Ì PPP fT[fof[Æ,ÌÚ'±,ðØ'f,µ,Ü,·B
- 2 f_fCf,,f:fAfbfv flfbfgf[fN,ÅA[«,»'¼] ,ðNfšfbfN,µAZŽ,É [fGf"fgfŠ,Æf,fff€,lfvf]fpfefB,Ì•ÒW] ,ðNfšfbfN,µ,Ü,·B
- 3 [fT[fof[f^fu,Ì [PPP LCP Šg'£,ðŽg,κ] f`fFbfN f{fbfNfX,ðfift,É,µ,Ü,·B
- 4 [OK] ,ðNfšfbfN,µ,Ü,·B

TCP/IP fT[fefBfšfefB,ª"®Ì,µ,Ü,¹,ñB

fšf,[fg,Ì PPP fT[fof[É³í,ÉÚ'±,Á,«,é,Ì,ÉATCP/IP fT[fefBfšfefB,ª"®Ì,µ,È,çê#Í,ÍAIP fwfbf_[]^³k,ª-â'è,Æ,È,Á,Ä,ç,é%Å"\«ª, ,è,Ü,·BIP fwfbf_[]^³k,ðfift,É,µ,Ä,©,çA,à,æ"è"xÚ'± ,µ,Ä,Ý,Ä,,¾,¾,çB

IP fwfbf_[]^³k,ðfift,É,·,é,É,Í

- 1 fšf,[fg,Ì PPP fT[fof[Æ,ÌÚ'±,ðØ'f,µ,Ü,·B
- 2 f_fCf,,f:fAfbfv flfbfgf[fN,ÅA[«,»'¼] ,ðNfšfbfN,µAZŽ,É [fGf"fgfŠ,Æf,fff€,lfvf]fpfefB,Ì•ÒW] ,ðNfšfbfN,µ,Ü,·B
- 3 [fT[fof[f^fu,Ì [TCP/IP ,]Ý'è] ,ðNfšfbfN,µ,Ü,·B
- 4 [PPP TCP/IP ,]Ý'è] f_fCfAf[]fo f{fbfNfX,Ì [IP fwfbf_[]^³k,ðŽg,κ] f`fFbfN f{fbfNfX,ðfift,É,µ,Ü,·B
- 5 [OK] ,ðNfšfbfN,µ,Ü,·B

,» ,ì¼, ÌfffofCfX fRf}f“fh ftf@fCf< (.INF) ,đŽg,»

RAS ,íASWITCH.INF AMODEM.INF A, ,æ, Ñ PAD.INF ,đŽg, Á, Ä AfT [fo [, Ö, Ìî~bCE^ , ÌfffofCf“ , đŽ © “ ® %» , µ, ½, è Af, fff€ , Æ X.25 PAD , đ%» Šú%» , µ, ½, è, µ, Ü, · B, ±, è, ç, Ìftf@fCf< , Í, · , x, Ä AfffofCfX , âfRf“ fsf... [f^ , Æ, ÌŽ © “ ® Ê M, Ê A “ , ¶ fRf}f“fh, Æ ¶ · ¶ , đŽg, ç, Ü, · B

, ±, è, ç, Ìftf@fCf< , É, í A ^ è “ É “ I, È ‘ ‘ u, âfTf [fg, ³, è, Ä, ç, é ‘ ‘ u, Ì—á, Æ ^ è “ A, ÌfRf}f“fh (fXfNfŠfvfg) , ðŠÜ, Ü, è, Ä, ç, Ü, · B Žg—p, · , é ‘ ‘ u—p, Ì<L [q, âftf@fCf< “à, É, È, ç ê ð †, í A, Ü, ©, ÌfXfNfŠfvfg, đ— á, Æ, µ, Ä Žg, Á, ½, è A “ Á “ è, Ì ‘ ‘ u, È “ K Ø, ÈfRf}f“fh, đ ‘ Ç %» Á, µ, ½, è, µ, Ä A, ± , Ìftf@fCf< , É “ Æ Ž © , ÌfXfNfŠfvfg, đ [[, · , é, ±, Æ, ð, Á, «, Ü, · B

, Ç, Ìftf@fCf< , Á, à “ , ¶ [· ¶ , Æ < ð ÊfRf}f“fh, ð Žg, í, è, é, Ì, Ä A ŽŸ, Ì MODEM.INF , É ŠÖ, · , é wf< fv fgfsfbfN, í A, » , Ì¼, Ì .INF ftf@fCf< , É, à “ K—p, Á, «, Ü, · B

f, fff€, ÌfXfNfŠfvfg ftf@fCf< , Ì ŠT—v

MODEM.INF , đ [C [³ , · , é

MODEM.INF , Ì [· ¶

ŽŸ, Ìftf@fCf< , í A \systemroot\System32\RAS fffBfCefNfgfŠ, É, , è, Ü, · B

MODEM.INF

, ±, Ìftf@fCf< , É<L [q, ³, è, ½fRf}f“fh, í A Ž © “ ® “ I, Èf, fff€, É ‘ —M, ³, è, Ü, · Bf, fff€, ð “ [] , µ, È, ç ê ð †, â A ^ è — É, È, ç ê ð † “ È ŠÖ, í A, ±, Ìftf@fCf< , đ [C [³ , · , é • K—v, Í , è, Ü, ¹, ñ B [Ú [x, É, Á, ç, Ä, í A [uf, fff€, ÌfXfNfŠfvfg ftf@fCf< , Ì ŠT—v [v , đ Ž Q [Æ, µ, Ä, , ¾, ³, ç [B

SWITCH.INF

, ±, Ìftf@fCf< , É<L [q, ³, è, ½fRf}f“fh, í A AfZfLf...fŠfefB fzfXfg [A, Ü, ½, Ìî~bCE^ , ÌfffofCf“ , đ • K—v, Æ, · , éfŠf, [fg fT [[fo [(UNIX fT [[fo [, È, Ç) , đ%» î, µ, Ä [Ú ‘ ± , · , é ê ð †, È Žg, í, è, Ü, · BfXfNfŠfvfg, Ì [[, Á, í A ‘ ‘ u-¼, đ Šp, ©, Á, ±, Á ‘ Ì, ñ, Á “ ü—Í, µ [A ‘ ‘ u-¼, É ‘ ± , , Á 1 , Á, Ü, ½, Í · [] “ , ÌfRf}f“fh, đ “ ü— Í, µ, Ü, · BfXfNfŠfvfg, đ [[, µ, ½, ç [A, » , ÌfXfNfŠfvfg, đ Žg, » ŠefŠf, [fg fAfNfZfX fGf“fgfŠ, ÁfXfNfŠfvfg, đfAfNfefBfu%» , µ, Ü, · BfXfNfŠfvfg, Ìf_fCf, , f ‘ O, È Žg, » (f, fff€ fv [[f< , È, Ç, Ì [ê [†) , ± , Æ, à [Af_fCf, , f< Cè, È Žg, » (fZfLf...fŠfefB fzfXfg [AfŠf, [fg fT [[fo [, Ö, Ì Ž A [Ú, ÌfffofCf“ , È, Ç, Ì [ê [†) , ± , Æ, à, Á, «, Ü, · B [Ú [x, É, Á, ç, Ä, í A [u SWITCH.INF fXfNfŠfvfg, đ Žg, Á, Ä Šf, [fg f [fOif“ , đ Ž © “ ® %» , · , é [v , đ Ž Q [Æ, µ, Ä, , ¾, ³, ç [B

PAD.INF

, ±, Ìftf@fCf< , É<L [q, ³, è, ½fRf}f“fh, í A X.25 PAD , đ%» î, µ, Ä [Ú ‘ ± , · , é ê ð †, È Žg, í, è, Ü, · BfTf [[fg, ³, è, Ä, ç, é PAD , Ì, Ü, Æ, ñ, Ç, É, Á, ç, Ä, í A PAD.INF , ÈfXfNfŠfvfg, ð<L [q, ³, è, Ä, ç, Ü, · B • K—v, Á, , è, í A ‘ ‘ u-¼, đ Šp, ©, Á, ± , Á ‘ Ì, ñ, Á “ ü—Í, µ [A ‘ ‘ u-¼, Ì Cè, è, É 1 , Á, Ü, ½, Í · [] “ , ÌfRf}f“fh, đ “ ü—Í, · , é, ± , Æ, É, æ, èfXfNfŠfvfg, đ [[, µ, Ü, · BfXfNfŠfvfg, đ [[, µ, ½, ç [A, » , ÌfXfNfŠfvfg, đ Žg, » ŠefŠf, [fg fAfNfZfX fgf“fgfŠ, É, Á, ç, Ä [A [X.25] f^fu, ©, çfXfNfŠfvfg, đfAfNfefBfu%» , µ, Ü, · B [Ú [x, É, Á, ç, Ä, í A [wflfbfg [[fN fKfCfh [x, đ Ž Q [Æ, µ, Ä, , ¾, ³, ç [B

MSN ,Æ,ìÚ'±,É Windows NT ,ðŽg,α

The Microsoft Network (MSN) ,ðfCf“f^[]fifbfg fT[]fxfX fvf[]fofCf_ ,Æ,μ,Ä~—p,Å,«,é,ì,í[]AŠù,É Windows 95 ,ðŽg,Á,Ä MSN fAfjJfEf“fg,ð[][]—,μ,Ä,ç,é[]ê[]‡,¾, ,Ä,·[]B

Windows NT ,@,ç MSN ,ðŽg,Á,ÄfCf“f^[]fifbfg,É[]Ú'±,·,é[]ê[]‡,í[]Af[][]f<,âCEfŽì”Â,È,Ç,ìCEÅ—L,ìfif“f%ofCf“ fT[]fxfX,í~—p,Å,«,Ü,¹,ñ[]B

MSN ,É[]Ú'±,·,é,É,í

- 1 [f_fCf,,f<fAfbfv fifbfgf[][]fN] fEfBf“fhfE,Å[]A[[]V<K[][]—] ,ðfNfŠfbfN,μ,Ü,·[]B
- 2 %œ—É,É•\Žì,³,ê,éŽwŽì,É[]],Á,Ä'€[]i,μ,Ü,·[]B,Ü,½,í[]A“d~b' ,ð'¼[]Ú•Ò[]W,·,é,æ,α,Éf`fFfbfN f{fbfNfX,ðfif“ ,É,μ,Ä [Š@—¹] ,ðfNfŠfbfN,μ[]AŽÿ,ìŽè[]‡,É[]],ç,Ü,·[]B
- 3 [Šì--{] f^fu,Å[]AfGf“fgfŠ,ì-¼'° (—á[]F **MSN**) ,ð“ü—í,μ,Ü,·[]B
- 4 fCf“f^[]fifbfg,ÉfAfNfZfX,Å,«,é<ß,,ì MSN fT[]fxfX“d~b”Ô[]t,ð“ü—í,μ,Ü,·[]B
- 5 f,fff€,ð'ì'ð,μ[]AŠù'è,ìf,fff€[][]—,ðŽg,ç,Ü,·[]B
- 6 [fT[]fo[][] f^fu,ì [f_fCf,,f<fAfbfv fT[]fo[][],ìŽì—P] f{fbfNfX,Å[]A[PPP] ,ð'ì'ð,μ,Ü,·[]B [fifbfgf[][]fN fvf[]fgfRf<] ,Å[]A[TCP/IP] f`fFfbfN f{fbfNfX,¾, ,ðfif“ ,É,μ,Ü,·[]B [PPP LCP Šg'£,ðŽg,α] f`fFfbfN f{fbfNfX,ðfift,É,μ,Ü,·[]B
- 7 [fzfLf...fŠfefB] f^fu,ì [fNfŠfA fefLfxfg,ðŠÜ,“C^Ó,ì”F[]Ø,ðŽó, ,t, ,é] ,ðfNfŠfbfN,μ[]AŽÿ,É [OK] ,ðfNfŠfbfN,μ,Ü,·[]B
- 8 [f_fCf,,f<] ,ðfNfŠfbfN,μ,Ü,·[]B
- 9 [[],Ö,ìÚ'±] f_fCfAf[]fo f{fbfNfX,Å[]AMS N ,Ä,ìft[]fU[][-¼,ð **MSN**/ft[]fU[][-¼ ,Æ,ç,αCE` ,Ä“ü— í,μ,Ü,·[]B
- 10 ,»,ìft[]fU[][-¼,ì MSN ,ìfpfXf[][]fh,ð“ü—í,μ[]A[OK] ,ðfNfŠfbfN,μ,Ü,·[]B

fŠf, [fg] fT [fo] [ÉÚ'±, ., é

- É [AfŠf, [fg, ÅÚ'±, ., é] fT [fo] [É, Í AŽŸ, Ì 3 Ží—p, a, , è, Ü, ·B
- Microsoft RAS fT [fo] [(LAN Manager Version 2.1 [Windows NT Version 3.1 ^É ~A, " , æ, Ń
Windows 95)
- Microsoft »·i ^ÈŠO, Ì PPP fT [fo] [
- SLIP fT [fo] [

Microsoft RAS fT [fo] [ÉÚ'±, ., é] v fZfX, Í ŠÈ'P, Å, ·B, ±, Ì v fZfX, Å, Í [Windows NT
, É] fOf" , ., é, Æ, «, É Žw'è, μ, ½ fAfJfEf "fg [i·ñ, a Žg, í, ê, Ü, ·B Windows NT RAS , ð ŽÀ s, μ, Å, ç, È, ç fRf "fsf...
[f^, É Windows NT RAS , ð Žg, Á, ÅÚ'±, ., é] ê [Í AfŠf, [fg] v fXfef€ , É] fOf" , ., é, Æ, «, É Af^ [f~fj<
fEfBf "fhfE, Å "Á'è, Ì fRf} f "fh, Æ %ž "š, ð, â, è, Æ, è, μ, È, , ê, Í, È, ç, È, ç, ±, Æ, a, , è, Ü, ·B

Microsoft RAS fT[fO]

Microsoft RAS fT[fO],ÉÚ±,·,évfZfX,ÍŠÈ'P,Å,·B,±,lfvfZfX,Å,íAWindows NT
,ÉfOf"·,·,é,Æ,«,ÉŽw'è,μ,½fAfJfEj"fgî•ñ,Žg,í,è,Ü,·BWindows NT RAS ,ðŽÀs,μ,Ä,ç,È,çfRf"fsf...
[f^,É Windows NT RAS ,ðŽg,Á,ÄÚ±,·,éè,í,íAfŠf,[fg fVfXfe€ÉfOf"·,·,é,Æ,«,ÉAf^~fif<
fEfBf"fhfE,Å"Á'è,ìfRf}f"fh,Æ%ž"š,ð,â,è,Æ,è,μ,È,·,è,í,È,ç,È,ç,±,Æ,ª, ,è,Ü,·B

fNf%ofCfAf"fg,ª Windows NT fRf"fsf...[f^,ÅAfŠf,[fg fT[fO],ª Microsoft RAS
fT[fO],ìè,íAWindows NT ,ìfZfLf...fŠfEfB,ðŽg,Á,ÄfOf" ,ðŠ®'S,ÉŽ©"®%»»,Å,«,Ü,·B

ŠÖ~A€-Ú

fŠf,[fg fT[fO],ÉÚ±,·,é

PPP fT[fO]

SLIP fT[fO]

PPP fT[fO]

PPP (Point-to-Point Protocol fJfCf"fg fc[fJfCf"fg fvf[fJfCfRf<) ,íA fŠf, [fg fRf"fsf... [f^ŠÖ, ìÚ'± , ìfJfSfVfG [fVf#f", ÉŽg, í, è, é" äŠr"ìV, μ, ç fvf[fJfCfRf<, Å, ·BPPP , ì" F[fJfCfRf<, ðTf [fg, ·, éfNf%ofCfAf"fg fJ ftfJfE fFfA, ÆfŠf, [fg fT[fO]. íA fJfCfRf< fN, Æ" F[fO, ìÚ'è, ìfJfSfVfG [fVf#f", ðŽ©" ® "ì, É, ç, ù, ·BPPP fT[fO], ÉÚ'±, ·, é, É, íA ŽŸ, ì, æ, x, ÈŽè [f, ·, a·K—v, Å, ·B

- f fCf, f fAfbfv fJfCfRf< fN, ÅA" d~b' fGf"fgfŠ, ð·ÒW, μA [fT[fO] f^fu, ðfNfSfbfN, μ, ù, ·BŽŸ, ÉA [f fCf, f fAfbfv fT[fO], ìŽí—p] f {fbfNfX, ì [PPP], ð'ì'ð, μ, ù, ·BSù'è, ìÚ'è, Å, íA, ±, ì€—Ú, a'ì'ð, ·, è, Å, ç, ù, ·B
- CEÁ, Ño, μæ, ìT[fO], ÆfefLfxfg fx [fX, ÅfOflf" ì·ñ, ðCEðŠ, ·, é·K—v, ·, éê [f, íA [fXfNfSfVfG] f^fu, ðfNfSfbfN, μA [f^ [f~fif< fEfBf"fhfE, ðŠ], ·, ð'ì'ð, μ, ù, ·B, ±, è, É, æ, èAÚ'±, ìŽè'±, «'t, Éf^ [f~fif< f fCfAfO, ·, a·Žì, ·, èAfefLfxfg fx [fX, ÅfOflf" ì·ñ, ðCEðŠ, Å, «, é, æ, x, É, È, è, ù, ·B

PPP <KŠì, Å, íA ^Ã+%%>, ù, ½, ìfNfSfA fefLfxfg, ì" F[fJfCfRf<, ðŽg, Å, Æ" F[fO, ðŠ®'S, ÉŽ©" ® %>>, Å, «, ù, ·B, μ, ç, μA ^è·", ì PPP fvf[fO fCf, ìAPPP , ì" F[fJfCfRf<, ðŽÀ'·, μ, Å, ç, ù, ñB, ±, ì, ½, ßAPPP , ð<N" ®, ·, é' O, ÉAfefLfxfg fx [fX, ÅfOflf" ì·ñ, ðCEðŠ, ·, é·K—v, ·, è, ù, ·B

fefLfxfg fx [fX, ì·ñCEðŠ, ðŽ©" ® %>>, ·, é, É, íA fNfSfA fefLfxfg, ìfOflf" f fCfAfO, ì'ä, í, è, É SWITCH.INF fXfNfSfVfG, ðŽg, ç, ù, ·BÚ'x, É, Å, ç, Å, íA uSWITCH.INF fXfNfSfVfG, ðŽg, Å, ÅŠf, [fg fOflf" , ðŽ©" ® %>>, ·, éA uSWITCH.INF , ðŽÀ's, ·, évA, ", æ, Ñ uDEVICE.LOG , É, æ, éfXfNfSfVfG, ìfgf%uf<fVf... [fefBf" fOv, ðŽQAE, μ, Å, ·, ¾, ·, çB

ŠÖ~A€—Ú

fŠf, [fg fT[fO], ÉÚ'±, ·, é

Microsoft RAS fT[fO]

SLIP fT[fO]

SLIP fT[fO]

SLIP (Serial Line Internet Protocol fVfŠfAf<%ñüfCf“f^ [flfbfg fvf ffgfRf<) , íA“FØ∅<@ \, ðTf] [fg, µ, Ä, ç, È, ç<CEŽ @ , lfvf ffgfRf<, Å, ·B'ÉíASLIP Ú'±, Å, íAfefLfxfg fx[fX, lfOflf“ fZfbfVf#f“, a•K—v, Å, ·B^Ã+» , Æflfbfgf [fN fpf% f [f^ , lŽ © “ @ flfSvfG [fVf#f“, íAftf] [fg, ³, è, Ä, ç, Ü, ¹, ñBSLIP fT[fO] , ÉÚ'±, ·, é, É, íAŽŸ, ì, æ, x, ÈŽè [f, a•K—v, Å, ·B

- f_fCf, f<fAfbfv flfbfgf [fN, ÅA“d~b' fGf“fgfŠ, ð•ÒW, µA[fT[fO]] f^fu, ðfNfŠfbfN, µ, Ü, ·BŽŸ, ÉA[f_fCf, f<fAfbfv fT[fO] , lŽí—p] f{fbfNfX, ì [SLIP] , ð'ì, µ, Ü, ·B
- CEÄ, Ño, µæ, lfT[fO] , ÆfefLfxfg fx[fX, ÅfOflf“ í•ñ, ðCEðŠ, ·, é•K—v, a, , éé [f, íA[fXfNfŠfvfg] f^fu, ðfNfŠfbfN, µA[f^ [f~fif< fEbf“fhfE, ðŠ,] , ð'ì, µ, Ü, ·BÚ'±, lŽè'±, «'t, Éf^ [f~fif< f_fCfAfO, a•\ Ž, ³, èAfefLfxfg fx[fX, ÅfOflf“ í•ñ, ðCEðŠ, Å, «, é, æ, x, É, È, è, Ü, ·B

fefLfxfg fx[fX, ìí•ñCEðŠ, ðŽ © “ @%» , ·, é, É, íAfnfŠfA fefLfxfg, lfOflf“ f_fCfAfO, ì'ã, í, è, É SWITCH.INF fxNfŠfvfg, ðŽg, ç, Ü, ·BÚ'±x, É, Ä, ç, Ä, íA[uSWITCH.INF fxNfŠfvfg, ðŽg, Ä, ÅŠf, [fg fOflf“ , ðŽ © “ @ %» , ·, évA[uSWITCH.INF , ðŽÀs, ·, évA, ” , æ, Ñ[uDEVICE.LOG , É, æ, éXfNfŠfvfg, lfgf%ofuf<fvf... [fefBf“fO]v, ðŽQ[Æ, µ, Ä, ³/4, ³, çB

ŠÖ~A[€-Ú

fŠf, [fg fT[fO] , ÉÚ'±, ·, é

Microsoft RAS fT[fO]

PPP fT[fO]

fŠf, [fg fOfif“ ,É RAS f^ [f~fif<, đŽg, x

PPP fT [fo [,Ü, ½, í SLIP fT [fo [,Éf_fCf, f<fCf“ , , éêê# Af^ [f~fif<%æ-É, đŽg, Á, ĀfŠf, [fg fRf“ fsf...
 [f^ ,Éf fOfif“ , , é•K-v, a, , é, AE, <, íA, » , Ì RAS fGf“ fgfŠ, Ì [“d~b” , ÌfGf“ fgfŠ, Ì•Ö [W] f_fCfAf fO f {fbfNfX, Ì
 [fXfNfŠfvfg] f^ fu, ĀA“RAS f^ [f~fif< fOfif““ , đŽg, x, æ, x, ÉŸ’è, µ, È, , é, í, È, è, Ü, , ñB, ±, Ì, æ, x
 , ÉŸ’è, µ, Ā, , , AE ARAS , ĀfŠf, [fg fVfXfefE, ÉŸ’±, µ, ½ CEã AfŠf, [fg fRf“ fsf... [f^ , ©, ç’—
 , ç, è, éf fOfif“ Žè# , a•Ÿšfx [fX, ÌfEfBf“ fhfE, É•Ÿ! , , é, Ü, , B, ±, ÌfEfBf“ fhfE, đŽg, Á, Ā’í~b“l, ÉfŠf, [fg fRf“ fsf...
 [f^ , Éf fOfif“ , µ, Ü, , B, Ü, ½A, ±, Ì, æ, x, ÉŽè“ @ fOfif“ , đŽ©“ @%» , , é, ±, AE, à, Ā, «, Ü, , BÜ×, É, Ā, ç
 , Ā, íA uSWITCH.INF fXfNfŠfvfg, đŽg, Á, ĀfŠf, [fg fOfif“ , đŽ©“ @%» , , éŸv, đŽQ AE, µ, Ā, , ¾, , çB
 B—pflfbfgf [fN, Ì’t, É, íA fOfif“ , Ì’O, ÉA—~p%Ā“\, ÈfT [frfX, Ìf fff... [, a•Ÿ! , , é, é, à, Ì, a, , è, Ü, , B, Ü, ½
 A<ÉŽ @ , Ì SLIP fT [fo [, Ì’t, É, íA fOfif“ fvf [fZfX, ÌŠÖ, ÉfRf} f“fh fV [fPf“ fX, đŽĀs , , é, ±
 , AE, É, æ, è AfTf@fCf< , ÌXV A•K—v, Èff [f^ , ÌžûW ASLIP Ÿ’±, ÌŸ—, É, Ç, đs, x, à, Ì, à, , è, Ü, , BŸV, µ, ç
 PPP fT [fo [, Ì’t, É, íA Ÿ’±, Ì’O, ÉfT [fU [-¼, AEfpfXf [fh, ¾, , đ-à, ç# , í, é, à, Ì, à, , è, Ü, , B
 ‘ [fŠf, [fg fRf“ fsf... [f^ , a Microsoft RAS fT [fo [, Ìê# , íA f^ [f~fif< fOfif“ , đŽg, x•K—
 v, Ì, , è, Ü, , ñB fOfif“ , íAŠ @’S, ÉŽ©“ @%» , , é, Ü, , B

f_fCf, f<CEã, É RAS f^ [f~fif<, đŽg, x, æ, x, É Windows NT RAS fGf“ fgfŠ, đŸŸ—, , , é, É, í

- 1 f_fCf, f<fAfbfv flfbfgf [fN, ĀA Ÿ’±æ, ÌfGf“ fgfŠ, đ’í’đ, µ, Ü, , B
 - 2 [, » , Ì¼] , đNfŠfbfN, µA [fGf“ fgfŠ, AEf, fffE, Ìfvf [fpfefB, Ì•Ö [W] , đNfŠfbfN, µ, Ü, , B
 - 3 [fXfNfŠfvfg] f^ fu, ĀA [f^ [f~fif< fEfBf“ fhfE, đŠ,] , đNfŠfbfN, µ, Ü, , B
 - 4 [OK] , đNfŠfbfN, µA ŽŸ, É [f_fCf, f<] , đNfŠfbfN, µ, Ü, , B
- , ±, ÌfGf“ fgfŠ, Éf_fCf, f<, µA Ÿ’± , , é, AE A [f_fCf, f< CEã f^ [f~fif<] fEfBf“ fhfE, a•Ÿ! , , é AfŠf, [fg fRf“ fsf...
 [f^ , Ìfvf [f“ fvf, a•Ÿ! , , é, Ü, , B, ±, Ì [f_fCf, f< CEã f^ [f~fif<] fEfBf“ fhfE, đŽg, Á, ĀfŠf, [fg fRf“ fsf...
 [f^ , Éf fOfif“ , µ, Ü, , BfŠf, [fg fRf“ fsf... [f^ , AE, Ì’í~b, a, , x, Ā—1, µ, ½, çA [Š @—1] , đNfŠfbfN, µ, Ü, , B
 fOfif“ Žè# , aŸí, É“ , , ĀA•í, í, é, ±, AE, a, È, çê# , íA fOfif“ Žè# , ÌžĀs’t, ÉfŠf, [fg fRf“ fsf...
 [f^ , ÉŽ©“ @“l, ÉŸ’ñ, đ“n, fXfNfŠfvfg, đŸŸ—, µA Ÿ’±, đŠ @’S, ÉŽ©“ @%» , , é, ±, AE, a, Ā, «, Ü, , B
 Ÿ’±, É, Ā, ç, Ā, íA uSWITCH.INF fXfNfŠfvfg, đŽg, Á, ĀfŠf, [fg fOfif“ , đŽ©“ @%» , , éŸv A uSWITCH.INF
 , đŽĀs , , éŸv A, , æ, Ñ uDEVICE.LOG , É, æ, éfXfNfŠfvfg, Ìfgf%ofuf<fvf... [fefBf“ fOŸv, đŽQ AE, µ, Ā, , ¾, , çB

SWITCH.INF fXfNfŠfVfg,đŽg,Á,ÄfŠf, [fg fOfOfif“ ,đŽ©“ @%» ,.é

fOfOfif“ fvfFzfX,đŽ©“ @%» ,.é,É,íASWITCH.INF ftj@fCf< (X.25 flfbfgf [fN,Á,íAPAD.INF) ,đŽg,č
,Ü,·B,±,é,É,æ,èAufŠf, [fg fOfOfif“ ,É RAS f^ [f~fif<,đŽg,ᄀv,Áà-¾,μ,½,æ,ᄀ,ÉARAS f^ [f~fif<
fEfBf“fhfE,đŽè“ @,Á'€i,.,é•K—v,^a,È,,È,è,Ü,·B

fXfNfŠfVfg,É,æ,éŽ©“ @%» ,íAfŠf, [fg fRf“fsf... [f^ ,É'èŠú“l,ÉÚ'±,.,é•K—v,^a ,éèè±,É“Á,É-đ—
š,ž,Ü,·BfXfNfŠfVfg,đŽg,ᄀ,æ,ᄀ,É RAS fGf“fgfŠ,^a [f~³,é,Ä,č,é,íAfŠf, [fgÚ'±
,ÉŽ,“s,μ,½èè±,Á,àARAS ,ÍŽ©“ @“l,ÉfŠf_fCf, f<,μAÚ'±,đÄŠm—š,μ,Ü,·B,Ü,½AfŠf, [fg fVfXfef€
,É•p“É,ÉfOfOfif“ ,.,éèè±,íA-^%ñžè“ @,ÄfOfOfif“ ,.,é•K—v,^a,È,,È,é,ì,ÁAZžŠÔ,đB-ñ,Ä,«,Ü,·B

SWITCH.INF ftj@fCf<,É,íA“Ä—p,lfXfNfŠfVfg,^aL [q,³,é,Ä,č,Ü,·B,±
,lfXfNfŠfVfg,íA,Ü,Æ,ñ,Ç,Ü,½,í,Ü,Á,½,•íX,¹,.,ÉŽg—p,Ä,«,Ü,·B,Ü,·A“Ä—p,lfXfNfŠfVfg,đŽg,Á,ÄÚ'±
,μ,Ä,Ý,Ä,,¾,³,čB“Ä—p,lfXfNfŠfVfg,Á³,μ,Ú'±,Ä,«,È,čèè±,íA,±
,lfXfNfŠfVfg,đRfs [l,μAÚ'±æ,lfŠf, [fg fRf“fsf... [f^ ,lfOfOfif“ Žèè±,Éè±,í,¹,ÄC³,μ,Ü,·B

' [,±,±,Áà-¾,μ,Ä,č,éfXfNfŠfVfgCE¾CEè,íAf,fff€,đŠÜ,b,Ü,©,ì'•u,Æ,à'ÉM,Ä,«,é,æ,ᄀ
,ÉÝCEv,³,é,Ä,č,Ü,·Bf,fff€,lfXfNfŠfVfg,ÉŠÖ,.,é'mŽ⁻,^a,È,č,ÆAfXfNfŠfVfg,í—%đ,μ,É,,čèè±,^a ,è
,Ü,·B [uRAS —p,lfXfNfŠfVfg,đ [f~³,.,év,Á,íAfXfNfŠfVfg,ì [f~³•ú-@,đà-¾,μ,Ü,·^aA“Ä—
p,lfTf“fvf< fXfNfŠfVfg,ì,č,,é,©,đRfs [l,μA•íX,.,é•ú-@,^aÄ,àŠÈ'P,Ä,·B

ŠÖ~A [€-Ü

RAS —p,lfXfNfŠfVfg,đ [f~³,.,é

SWITCH.INF ,đŽÄ [s,.,é

DEVICE.LOG ,É,æ,éfXfNfŠfVfg,lfq%ofuf<fVf... [fefBf“fO

RAS —p,lfXfNfŠfVfg,đ□ì□—,·,é

SWITCH.INF ftf@fCf<,í□Asystemroot\SYSTEM32\RAS fffBfCefNfgfŠ,É, ,è□A,ç,,Â,©,ì□—,³,Èfofbf` ftf@fCf<
(fXfNfŠfVfg) ,đ'g,Ý□‡,í,¹,½,æ,x,È□\□—,É,È,Á,Ä,ç,Ü,·□BSWITCH.INF ftf@fCf<,É,í□ARAS
ft□[fU□[,ªCEÄ,Ñ□o,·'‡%oi'·'u,âfjf"ƒ%ofCf" fT□[frfX,²,Æ,É□A^Ù,È,éfXfNfŠfVfg,đ<L□q,Å,«,Ü,·□B

SWITCH.INF ,lfXfNfŠfVfg,í□AfZfNfVf‡f" fwfbf □[□AfRf□f"fg□s□AfRf}f"fh□A%ož"š□A
%ož"šfL□[f□□[fh□A,·,æ,Ñf}fNf□,ì 6 ,Â,ì—v'f,©,ç□\□—,³,è,Ä,ç,Ü,·□B

ŠÖ~A□€-Ú

SWITCH.INF ,đŽÀ□s,·,é

DEVICE.LOG ,É,æ,éfXfNfŠfVfg,lfqf%ofuf<fVf...□[fefBf"fo

fXfNfŠfVfg,ì<L□q—á

2 ·bŠÖ,lfMfffbfv,đŠÜ,P',ç·¶Žš—ñ,lfuf□fbfN,đ□^—□,·,é

fRf}f"fh,ÆfLfffŠfbfW fŠf^□[f"

fZfNfVf#f“ fwfbf_[]

fZfNfVf#f“ fwfbf_[][,í[]ASWITCH.INF ftf@fCf<,ì“à—e,ðĈĀ•Ē,ìfXfNfŠfVfg,É<æ[]Ø,è[]A‘Á’è,ìfŠf,[]fg fRf“fsf...
[][f^,É‘í%ž,.,éfXfNfŠfVfg,ìŽn,Ü,è,ðŽì,μ,Ü,·[]BfZfNfVf#f“ fwfbf_[][,ì•¶Žš[]“,í[]A31 •¶Žš^È
%°°,Á,È,¯,é,î,È,è,Ü,¹,ñ[]BfXfNfŠfVfg,ªŽÀ[]s,³,é,é,Æ[]AfZfNfVf#f“ fwfbf_[][,ì•¶Žš—ñ,ª\
Žì,³,è,Ü,·[]BfZfNfVf#f“ fwfbf_[][,í[]AZÿ,ì,æ,κ,ÉŠp,©,Á,±,Ā^í,Ý,Ü,·[]B

[Route 66 Logon]

ŠÖ~A[]€-Ú

RAS —p,ìfXfNfŠfVfg,ð[]i[]-,:.é

fRf“fgs

fRf“fgs,É,íA1 Ć...-Ú,ÉfZf~fRf“ (;) ,đ<Lq,μ,È,̄,ê,Î,È,è,Û,¹,ňBfRf“fgs,íAftf@fCf<“à,ì,Ç,±
,É, ,Á,Ä,à,©,Û,ç,Û,¹,ňBfRf“fgs,É,íAZÏ,ì,æ,κ,ÉASWITCH.INF
ftf@fCf<,ì•ÚŽç,ì,½,β,ìí•ň,đ<Lq,μ,Û,·B

; ìí-“úF 1996 "N 9 ĆŽ 29 “úAìí-ŽÒF MariaG

ŠÖ~A€-Ú

RAS —p.ìfXfNfŠfvg,đìí-,:é

fRf}f“fh

fXfNfŠfVfg,İše□s,É,í□A□□□fjf< fRf“fsf...□f^,©,çfŠf,□fG fRf“fsf...□f^,Ö,İfRf}f“fh□A,Ü,½,İfŠf,□fG fRf“fsf...□f^,©,çf□□fjf< fRf“fsf...□f^,Ö,İ%ž“š,đ<L□q,μ,Ü,·□B,»é,¼,è,İfRf}f“fh,Æ %ž“š,í□A□□f^,Ü,½,İfēLfXfg,İfXfgfŠ□fē,Å,·□B,½,Æ,İ,İ□AZÿ,İfRf}f“fh,í□A□□fU□[-¼ (MariaG),ÆfLfffŠfbfW fŠf^□f“ (f}fNf□ <cr>),đfŠf,□fG fRf“fsf...□f^,É—□M,μ,Ü,·□B

COMMAND= MariaG<cr>

fRf}f“fh,Æ%ž“š,í□A□Šf,□fG fffofCfX,ª‘z’è,μ,Ä,ç,é,Æ,“,è,İ□#~ ,Å<L□q,μ,È,“,é,Î,È,è,Ü,¹ñ□BGOTO ,â IF ,È,Ç,İ•ªŠòXfe□fGf□f“fg,í□A□T□f□fG,³è,Ä,ç,Ü,¹ñ□B

“Á’è,İfŠf,□fG fffofCfX,É•K—v,ÈfRf}f“fh,Æ%ž“š,İfV□fP□fX,É,Ä,ç,Ä,í□A,» ,İffofCfX,İf}fjf... fAf<,đŽQ□Æ,μ,Ä,,¼,³ç□B,Ü,½□A□x—p□T□f□fX,É□Ú±,·,é□é□#,í□A,» ,İfT□f□fX,İfT□f□fG fXf^fbft,É—â,ç□#,í,¹Ä,,¼,³ç□B“K□Ø,ÈfV□fP□fX,đ“üŽè,Ä,« ,È,ç□é□#,í□ARAS ,Ä’ñ<ÿ,³è,Ä,ç,é“Ä—p,İfXfNfŠfVfg,đŽÀ□s,μ□A□Šf,□fG fRf“fsf...□f^,İf□f□f“Žè□#,É□#,í,¹Ä•İ□X,μ,Ü,·□B□Ú□x,É,Ä,ç ,Ä,í□A□uDEVICE.LOG ,É,æ,éfXfNfŠfVfg,İfGf%uf□fVf...□fēfBf“fO □v,đŽQ□Æ,μ,Ä,,¼,³ç□B

COMMAND= fXfe□fGf□f“fg,É,í□A,Ü,©,É 2 Ží—b,İŽg,ç•û,^a, ,è,Ü,·□B

COMMAND= NoResponse

,±,è,í□AŠù’è,İ“ @□,Ä□A—ñ 2 •bŠÖ,İ’x%o,,,ª”□¶,μ,Ü,·□B’±%oi’•‘u,É’x%o,,,ª•K—v,É□é□#,É—đ—š,ç,Ü,·□B

COMMAND= string

‘□ string ,İEä,É,í□A□fLfffŠfbfW fŠf^□f“ (<cr>),đ•t,“,Ü,¹ñ□B,±,è,í□A“ü—í,ÉŽžŠÖ,đ—v,·,éffofCfX,İ□é□#,É—đ—š,ç,Ü,·□B,±,İ,æ,x,ÈffofCfX,É,í□A□fRf}f“fh•¶Žš—ñ,^aÜ,Æ,ß,Ä’—□M,³è,é,İ,Ä,Í,È,□A1 •¶Žš,,Ä’—□M,³è,Ü,·□B

Žÿ,İ—á,í□A’±%oi’•‘u,İ□^—□’—“x,ª”ñ□í,É’x,ç,¼,ß,É□A□fRf}f“fh PPP ,đ 1 •¶Žš,,Ä,μ,©Žó□M,Ä,« ,È,ç□é□#,İ—á,Ä,·□B

COMMAND=P NoResponse

COMMAND=P NoResponse

COMMAND=P NoResponse

ŠÖ~A□€—Ú

RAS —p,İfXfNfŠfVfg.đ□□□□,·,·,é

%ož“š

%ož“š, í AfŠf, [fg fffofCfX, Ü, ½, ÍfŠf, [fg fRf“fsf... [f^, ©, ç'—M, ³, ê, Ü, ·BŽ©“®
%o»», Ì, ½, ß, ÌfXfNfŠfVfg, ðìì—, ·, é, É, Í AfŠf, [fg fffofCfX, ©, çŽóM, ·, é%ož“š, Ì“à—e, ð'm, Á, Ä, ç
, È, ·, ê, Î, È, è, Ü, ¹, ñBŽóM, µ, ½, •¶Žš, ÌŠÔ, É 2 •b^Èä, ÌfMfffbfv, ², , éêë, ÍA, »), Ì•¶Žš—ñ, ¹ 1 , Â, Ì
%ož“š, Æ, µ, Ä'—M, ³, ê, ½, à, Ì, Æ©©, È, ³, ê, Ü, ·B, ±, ÌfMfffbfv, ÍA%ož“š, Ìì—¹, ðŽ!, ·—B^è, ÌžèŠ|
, ©, è, Ä, ·BÚ×, É, Á, ç, Ä, ÍA u2 •bŠÔ, ÌfMfffbfv, ðŠÜ, p', ç, •¶Žš—ñ, ÌfufbfN, ð^—, ·, év, ðŽQÆ, µ, Ä, -
, ¾, ³, çB

ŠÖ~A□€-Ú

RAS —p. ÌfXfNfŠfVfg. ðìì—, ·, é

%ož“šfL□[f□□[fh

%ož“šs,lfL□[f□□[fh,Ā,í□AfŠf,□[fg fRf“fsf...□[f^,©,çŽó□M,μ,½%ož“š,É'í,μ,Ā□s,κ□^—□,ðŽw'è,μ,Ü,·□B

OK=remote computer response<macro>

Žw'è,μ,½%ož“š,Ü,½,lf}fNf□,ðŽó□M,·,é,Æ□AfXfNfŠfVfg,íŽŸ,ì□s,É□i,Ÿ,Ü,·□B

LOOP=remote computer response<macro>

Žw'è,μ,½%ož“š,Ü,½,lf}fNf□,ðŽó□M,·,é,Æ□AfXfNfŠfVfg,í'O,ì□s,É-β,è,Ü,·□B

CONNECT=remote computer response <macro>

□³□í,Èf,fff€ fXfNfŠfVfg,ì□ĀCEă,ĀŽg,ç,Ü,·□B^è”É,É□ASWITCH.INF ftf@fCf<,Ā,íŽg,ç,Ü,¹,ñ□B

ERROR= remote computer response <macro>

Žw'è,μ,½%ož“š,ðŽó□M,·,é,Æ□A”Ā—p,lfGf%□□[f□fbfZ□[fW,ð•\Ž!,μ,Ü,·□BfŠf,□[fg fRf“fsf...
□[f^,©,ç“Á'è,lfGf%□□[,ª•ñ□□,³,è,½□ê□‡,É□ARAS ft□[fU□□[,É'É'm,·,é,½,β,É-ð—š,¿,Ü,·□B

ERROR_DIAGNOSTICS= remote computer response <diagnostics>

fff□fCfX,©,ç•Ö,³,è,½“Á'è,lfGf%□□[,ìCE'ö,ð•\Ž!,μ,Ü,·□B,·,x,Ā,fff□fCfX,©,ç“Á'è,lfGf
%□□[,ª•ñ□□,³,è,é,í,-,Ā,Í, ,è,Ü,¹,ñ□BMicrosoft RAS ,Ā,íŽ-•É,Ā,«.,É,ç“Á'è,lfGf
%□□[,ªfff□fCfX,©,ç•Ö,³,è,é□ê□‡,í□AERROR= ,ðŽg,ç,Ü,·□B

NoResponse

fŠf,□[fg fff□fCfX,©,ç%ož“š,ª—□M,³,è,É,ç□ê□‡,ÉŽg,ç,Ü,·□B

f□□[fjf< fRf“fsf...□[f^□ă,ì RAS ,í□AfŠf,□[fg fff□fCfX,©,ç%ož“š,ª, ,é,±,Æ,ðí,É'z'è,μ,Ā,ç,Ü,·□B,±

,ì,½,β□**ACOMMAND**= □s,ìŽŸ,É **NoResponse** fXfe□[fgf□f“fg,ª,È,çCEĀ,è□A

%ož“š,ðŽó□M,·,é,Ü,Ā'Ö,¿,Ü,·□B%ož“š,ÉŠÖ,·,éfXfe□[fgf□f“fg,ª **COMMAND**=

□s,ìŽŸ,É,È,ç□ê□‡,í□**ACOMMAND**= □s,ªŽĀ□s,³,è□AfXfNfŠfVfg,í,».,±,Ā'âŽ~,μ,Ü,·□B

ŠÖ~A□€-Ú

RAS —p.ìfXfNfŠfVfg.ð□i□→,·,é

f}fNf

f}fNf, íA•s“™ □+ (< >) ,Á^í,Ý,Ü,·□Bf}fNf, íAZÿ,ì,æ,æ,È“ÁŽê,È<@“\,ðŽÀ□s,μ,Ü,·□B

<cr>

f\fffšfbfW fšf^□[f“,ð’}“ü,μ,Ü,·□B

<lf>

f%ofCf“ ftfB□[fh,ð’}“ü,μ,Ü,·□B

<match> "string"

^ø—p•,,,Á^í,Ü,é,½•¶Žš—ñ,æfffofCfX,ì%ž“š,ì†,ÉCE©,Á,©,é,Æ□A^è’v,μ,½,±,Æ,ð•ñ□□,μ,Ü,·□B,±
,ìf}fNf,Á,íA’â•¶Žš,Æ□→•¶Žš,æ<æ•È,³,é,Ü,·□B,½,Æ,ì,íA**<match>** "Smith" ,Á,íAJane Smith ,Æ
John Smith III ,í^è’v,μ,Ü,·,æ□ASMITH ,í^è’v,μ,Ü,¹,ñ□B

<?>

f□fCf<fhfj□[fh•¶Žš,ð’}“ü,μ,Ü,·□B,½,Æ,ì,íA**CO<?><?>2** ,íA**COOL2** ,Ü,½,í **COAT2**
,Æ,í^è’v,μ,Ü,·,æ□**ACOOL3** ,Æ,í^è’v,μ,Ü,¹,ñ□B

<hXX> (XX ,í 16 □i□)

"C^Ó,ì16 □i□",ðŽw’è,Á,«,Ü,·□Bf[f□ fofCfG,íA**<h00>** ,É,È,è,Ü,·□B

<ignore>

%ž“š,ì,æ,ì,Á□A,±,ìf}fNf,æ,èCEă,ì•"•æ,ð-³Ž<,μ,Ü,·□B

<diagnostics>

"Á’è,ìfGf%□□[í•ñ,ðfffofCfX,©,ç RAS ,É“n,μ,Ü,·□B,±,ìf}fNf,ðŽg,æ,Æ□A“Á’è,ìfGf%□□[ð RAS
ft□[fU□[,É’È’m,Á,«,Ü,·□B“Á’è,ìfGf%□□[ð’È’m,μ,È,ç□é□‡,íA“Á—p,ìfGf%□□[f□fbfZ□[fW,æ•\Ž!,³,é,Ü,·□B

ŠÖ~A□€-Ú

"F□Øf}fNf

RAS —p,ìfXfNfšfvg,ð□i□→,·,é

"F0f}fNf

ŽŸ,lf}fNf,đŽg,æ,ÆAfU[fU[-¼,ÆfpfXf[fh,lfOfIf" fAfjEf"fgî•ñ,đfŠf,lf fRf"fsf...
[f^,ÉŽ©"®"l,É"n,·,±,Æ,ª,À,«,Ü,·B

<username>

RAS ,ì [] ,Ö,ìÚ'±] fEfBf"fhfE,É"ü—í,³,ê,½ft[fU[-¼,đfŠf,lf fRf"fsf...[f^,É'—M,µ,Ü,·B,±
,lf}fNf,íASLIP Ú'±,À,lfTf[f g,³,ê,À,ç,Ü,¹,ñB

<password>

RAS ,ì [] ,Ö,ìÚ'±] fEfBf"fhfE,É"ü—í,³,ê,½fpfXf[fh,đfŠf,lf fRf"fsf...[f^,É'—M,µ,Ü,·B,±
,lf}fNf,íASLIP Ú'±,À,lfTf[f g,³,ê,À,ç,Ü,¹,ñB

ŽŸ,ì—¼•û,ìđCE,ª—š,·,éê±,íAfOfIf"

fAfjEf"fgî•ñ,ì"F0,ªŽ, "s,µA[ft[fU[,ì"Ä"F0't] f_fCfAffo f{fbfNfX,ª•Ž!,³,ê,Ü,·B

- '±%î,lfZfLf...fŠefB fffofCfX,đ%î,µ,ÄVfXfef€,đCEÄ,Ño,·ê±B(RAS ,đŽg,À,ÄfCf" f^ [f]fbf g
fvf[fOfCf_,đCEÄ,Ño,·ê±,íA'ÉíA,±,ìó<µ,É,í"–,À,í,Ü,è,Ü,¹,ñB)
- fZfLf...fŠefB fffofCfX,ÉfOfIf" ,µ,½CEã,ÉAWindows NT RAS fT[fOf,ÉfOfIf" ,µ,æ,æ,Æ,·,éê±B
[ft[fU[,ì"Ä"F0't] f_fCfAffo f{fbfNfX,ª•Ž!,³,ê,é,ì,íARAS ,ì [] ,Ö,ìÚ'±] f_fCfAffo f{fbfNfX,ì
[ft[fU[-¼] f{fbfNfX,Æ [fpfXf[fh] f{fbfNfX,ªAWindows NT RAS fT[fOf,ÀŽg,í,è,é,¾,–,À,È,-
AfU[fU[-¼,ÆfpfXf[fh,ÉŠÖ,·,é 2 ,À,lf}fNf,À,àŽg,í,è,é,½,ß,À,·B
,½,Æ,ì,íAWindows NT RAS fT[fOf,Æf,fff€,ìŠÖ,É'±%î,lfZfLf...fŠefB fffofCfX,ª, ,é,Æ,µ,Ü,·BfZfLf...
fŠefB fffofCfX,lfOfIf"î•ñ,À,íAfU[fU[-¼,ª "BB318" ,ÀAfpfXf[fh,ª "34554377"
,À, ,èAWindows NT RAS fT[fOf,lfOfIf"î•ñ,À,íAfU[fU[-¼,ª "BB318" ,ÀAfpfXf[fh,ª
"treehouse" ,À, ,é,Æ,µ,Ü,·B,±,ìê±A'±%î,lfZfLf...fŠefB
ffofCfX,Ö,lfOfIf" ,í–CE+,µ,Ü,·ªAWindows NT RAS fT[fOf,Ö,lfOfIf" ,íŽ, "s,µ,Ü,·B
fOfIf" ,ªŽ, "s,·,é,ì,íAfZfLf...fŠefB fffofCfX,lfpfXf[fh,ì "34554377" ,ªAWindows NT
fhfOfCf" ,lfpfXf[fh,Æ,í^Ü,È,é,½,ß,À,·B,±,ì,½,ßAWindows NT ,íA[ft[fU[,ì"Ä"F0't] f_fCfAffo
f{fbfNfX,đ•Ž!,µAWindows NT ,ì³,µ,çfOfIf" fAfjEf"fgî•ñ (,±,ìê±,íAfpfXf[fh) ,đ-
â,ç±,í,¹,Ü,·B

[ft[fU[,ì"Ä"F0't] f_fCfAffo f{fbfNfX,đ•Ž!,µ,È,ç,æ,æ,É,·,é,É,í

- fVfXfef€ŠÇ—ŽÖ,É^È—Š,µA—¼•û,lfVfXfef€,lfU[fU[-
¼,ÆfpfXf[fh,đ"–,¶,É,µ,Ü,·B(,½,¾,µA,±,è,À,lfZfLf...fŠefB fffofCfX,đY'u,µ,½^Ó–j,ª,È,-
,É,é,ì,ÀA,¶s,À,«,é•û–@,À,í, ,è,Ü,¹,ñB)
- '±%î'•u,lfOfIf" fAfjEf"fgî•ñ,É<æ–p,lf_fCfAffo f{fbfNfX,đŽg,í,È,ç,À,-
,¾,³,çB,» ,ì'â,í,è,ÉASWITCH.INF ftf@fCf<,ì [Generic login] fXfNfŠfvfg,É],A,ÀAfU[fU[-
¼,ÆfpfXf[fh,đfNfŠfA fefLxf g,À SWITCH.INF ftf@fCf<,É<Lq,µ,Ü,·BfNfŠfA fefLxf g fpfXf[fh,ì<@-
s,đ•ÜŽ,·,é,É,íAWindows NT ftf@fCf< fVfXfef€ (NTFS) ,lfTf@fCf< fAfNfZfXCE ,đY'è,µA,Ü,©,lfU[fU[,ª,±
,lfTf@fCf<,ÉAfNfZfX,À,« ,È,ç,æ,æ,É,µ,È,–,é,ì,È,è,Ü,¹,ñB

fXfNfŠfVfg,ì<L□q—á

,±,±,Á,Í□ARAS ,É•t'® ,·,é SWITCH.INF ftf@fCf<,Á'ñ<Ÿ,³,ê,é□A"Ä—p,ìfXfNfŠfVfg,ìŠe•"•ª,É,Á,ç,Ä□à-
¾,μ,Ü,·□B

ŠefXfNfŠfVfg,É,Í□A□æ"ª,ÉfŠf,□[fg fRf"fsf...□[f^,Ö,ìfRf}f"fh,δ<L□q,μ□AZŸ,É 1 □s^É□ã,ì
%ž"š□s,δ<L□q,μ,Ü,·□B'½,,ì□ê□#□A,±,ì□æ"ª,ìfRf}f"fh,Í□AfŠf,□[fg fRf"fsf...□[f^,ª□%Šú%»»,³,ê□Af□fOfIf"
fvf□f"fvfg,δ'—□M,·,é,Ü,Á'Ò,Á,æ,κ,É□AfNf%ofCfAf"fg,ÉŽwŽ!,·,é,¾,¯,Á,·□BSù'è,ì□Ÿ'è,Á,Í□A2 •bŠÔf□fOfIf"
fvf□f"fvfg,δ'Ò,¿,Ü,·□BSWITCH.INF ftf@fCf<,É,Í□AZŸ,ì,æ,κ,É<L□q,μ,Ü,·□B

COMMAND=

%ž"š (fŠf,□[fg fRf"fsf...□[f^,©,ç'—□M,³,ê,é□fOfIf" fvf□f"fvfg) ,ªŽŸ,ì,æ,κ,É□ê□#□A

Welcome to Gibraltar Net. Please enter your login:

SWITCH.INF ftf@fCf<,ì'í%ž,·,é%ž"š□s,É,Í□AZŸ,ì,æ,κ,É<L□q,μ,Ü,·□B

OK=<match>"Please enter your login:"

"Please enter your login:" ,Æ,ç,κ•¶Žš—ñ,ªfŠf,□[fg fRf"fsf...□[f^,©,ç'—□M,³,ê,½□ê□#,Í□A—à'è,É,ç
,Æ"»'f,μ□AZŸ,ì□^—□,É□i,Ÿ,Ü,·□Bft□[fU□[-¼,ÉfLfffŠfbfW fŠf^□[f",δ•t,~%Á,ì,½•¶Žš—
ñ,δfRf}f"fh,Æ,μ,Ä'—□M,μ□AfŠf,□[fg fRf"fsf...□[f^,É%ž"š,μ,Ü,·□B

COMMAND=MariaG<cr>

fŠf,□[fg fRf"fsf...□[f^,©,ç,ì%ž"š,ªŽŸ,ì,æ,κ,É□ê□#□A

Please enter your password:

SWITCH.INF ftf@fCf<,ì'í%ž,·,é%ž"š□s,É,Í□AZŸ,ì,æ,κ,É<L□q,μ,Ü,·□B

OK=<match>"Please enter your password:"

fpfXf□□[fh,δ'—□M,·,é,É,Í□AZŸ,ì,æ,κ,ÉfRf}f"fh,δ'—□M,μ,Ü,·□B

COMMAND=mUs3naB<cr>

,±,ì,æ,κ,ÉfXfNfŠfVfg,δŽg,κ,Æ□A'½,,ì PPP fRf"fsf...□[f^,ÉŽ©"®"ì,Éf□fOfIf",Á,«,Ü,·□B

ŠÖ~A□€-Ú

SLIP fRf"fsf...□[f^,Ö,ìf□fOfIf",δŽ©"®%»»,·,é

RAS —p.ìfXfNfŠfVfg.ð□ì□-,·,é

SLIP fRf“fsf...[]f^,Ö,lf[]fOfif“,đŽ©“®%»,.·,é

Ā, Ñ, μ, ž, É, ASLIP fvf[]fofCf_, ©, ç- ^%ñ“ ~, ¶ IP fAfhfCEfX, Š,, è“- , Ä, ç, ê, é[]ê[]‡, í[]A[SLIP TCP/IP , ì[]Ý‘è] f_fCfAf[]fO f{fbfNfX, ÉfAfhfCEfX, đ“ ü— í, ·, é, ±, Æ, É, æ, è[]ASLIP []Ú‘±, đŠ®‘S, ÉŽ©“®%» , Å, «, Ü, ·[]B

Ā, Ñ, μ, ž, É[]A- ^%ñ^ Û, È, é IP fAfhfCEfX, Š,, è“- , Ä, ç, ê, é[]ê[]‡, í[]A[]f[]fOfif“ Žè[]‡, ì‘å•” •ª, đŽ©“® %» , Å, «, ½, Æ, μ, Ä, à[]ASLIP , ìf^[]f~fif< fEfBf“fhfE, Å IP fAfhfCEfX, đŽè“® , Å“ü— í, μ, È, ~, ê, î, È, è, Ü, ¹, ñ[]B

2 • bŠŌ, ìfMfffbfv, đŠŮ, p' •, ç • ħŽš—ñ, ìfufƒbfN, đŮ^—□, •, é

fŠf. □[fg fRf"fsf... □[f^, ©, çŽó□M, μ, ½‰ž"š, ìfƒ□[f^ fXfgfŠ□[f€, ì†, É 2 • bŠŌ, ìfMfffbfv, ā, , é□é□#□ARAS
 , í□A, » , ìfMfffbfv, đ‰ž"š, ì□—¹, ÆCE ©, È, μ, Ů, •□B, ±, ì, æ, x, ÈfMfffbfv, í□A'PCEé, Æ'PCEé, ÌŠŌ, È, Ç□A, Ç, ì, æ, x
 , È□é□Š, È, Ā, à□□, ħ, é‰Ā"□«^ā, , è, Ů, •□B, μ, ©, à□AfMfffbfv, ā□□, ħ, ½, ±, Æ, đCEŸ□o, •, é, È, í□ADEVICE.LOG
 , đŽg, í, È, , è, Ĭ, È, è, Ů, ¹, ñ□B□Ú□x, È, Ā, ç, Ā, í□A□uDEVICE.LOG , È, æ, éfXfNfŠfvg, ìfgf‰fuf<fVf...
 □[fEfBf"ƒO□v, đŽQ□Æ, μ, Ā, , ¾, ³, ç□B

□ì□—, μ, ½fXfNfŠfvg, ā"Á, È—□—R, à, È, fGf‰□[, È, È, é□é□# , í□ADEVICE.LOG , đ'², x□A'PCEé, ì"r†, Ā
 ‰ž"š, ā††f, ³, è, Ā, ç, È, ç, ©, Ç, x, ©, đŠm" F, μ, Ā, , ¾, ³, ç□B‰ž"š, ā††f, ³, è, Ā, ç, é□é□# , í□AfXfNfŠfvg, Ā 2
 • bŠŌ, ìfMfffbfv, đŮ|—□, μ, È, , è, Ĭ, È, è, Ů, ¹, ñ□B, » , ì, ½, ß, ÌŠÉ'P, È•Ů-@, Æ, μ, Ā□AŽŸ, ìfRf}f"fh, đŽg, ç, Ů, •□B

COMMAND=<cr>

LOOP= fL□[f□□[fh, đŽg, Ā, Ā□AfufƒbfN, ì□ÁCEā, Ā•ħŽš—ñ, đ"āŠr, •, é, ±
 , Æ, È, æ, è□A• ;□" , ìfMfffbfv, đŠŮ, p' •, ç • ħŽš—ñ, ìfufƒbfN, đŮÁCEā, Ů, ĀfXfLfbfv, Ā, «, Ů, •□B, ½, Æ, ì, í□AŽŸ, ì, æ, ç
 , ÈŽw'è, μ, Ů, •□B

COMMAND=<cr>

OK=<match>"Enter the service to start:"

LOOP=<ignore>

, ±, ì—á, Ā, í□A, Ů, , ‰‰½, à□s, í, È, ç (2 • bŠŌ'Ō, Ā) fRf}f"fh, đ'—□M, μ, Ů, •□BŽŸ, È□A"Enter the service to
 start:" , Æ, ç, xƒ□bfZ□[fW, đ'Ō, ÿ, Ů, •□B‰ž"š, ā' •, ç • ħŽš—ñ, ìfufƒbfN, ì□é□#□A—Ú"ì, ì•ħŽš—ñ, āCE ©, Ā, ©, ç, È, ç
 , Æ□AŽŸ, ì LOOP fRf}f"fh, È□i, Ÿ, Ů, •□BLOOP fRf}f"fh, È, æ, Ā, Ā'Ō, ì□s, È-ß, è□A2 "Ō—Ú, ì‰ž"š, Ā "Enter the
 service to start:" , Æ, ç, xƒ□bfZ□[fW, đ'Ō, ÿ, Ů, •□B, ±, ì•Ů-@, Ā□A' •, ç • ħŽš—ñ, ìfufƒbfN'S'ì, đŠm" F, μ□A-
 Ú"ì, ì•ħŽš—ñ, đŽæ"¾, •, é, ±, Æ, ā, Ā, «, Ů, •□B

ŠŌ~A□€-Ú

RAS —p. ìfXfNfŠfvg. đŮì□—, •, é

fRf}f“fh,ÆfLfffŠfbfW fŠf^[]f“

'Ê[]AfRf}f“fh,ì[]ÅCEä,É,í[]AfLfffŠfbfW fŠf^[]f“,ð•\,· <cr> ,ð'}“ü,µ,Û,·[]BfLfffŠfbfW fŠf^[]f“,ðŽg,⌘
,Æ[]A,»,)fRf}f“fh,í'¼,¿,ÉfŠf,[]fg fRf“fsf...[]f^,É^—[],è,Û,·[]B<cr> ,ðŽg,í,È,ç,Æ[]AfŠf,[]fg fRf“fsf...
[]f^,ÅfRf}f“fh,ª”FŽ~,³,è,È,ç,±,Æ,ª, ,è,Û,·[]B

^ê•û[]AfŠf,[]fg fRf“fsf...[]f^,ª[]AfLfffŠfbfW fŠf^[]f“,ð”º,í,È,çfRf}f“fh,ðŽó,~Žæ,è[]AfRf}f“fh,ð^—
[],·,éŽžŠÖ,ð•K—v,Æ,·,éê[]‡,í[]A<cr> ,ðŽg—p,Å,«,Û,¹,ñ[]B,±,è,í[]AZž,É[]A
%ž“š,ð'z'è,¹,,É^ê~A,)fRf}f“fh,ð'—[]M,·,éê[]‡,È,Ç,É”—,Ä,Í,Û,è,Û,·[]B

ŠÖ~A[]€-Ú

RAS —p,ífXfNfŠfvg,ð[]i[]-,·,é

SWITCH.INF ,đŽÀ□s,·,é

SWITCH.INF ,ÉfXfNfŠfvg,đ□i□-,μ,½CEă,Ā□AfXfNfŠfvg,đŽÀ□s,·,é,æ,π,É RAS ,İfGf“fgfŠ,đ□\□-,μ,Ü,·□B

Windows NT ,ĀfXfNfŠfvg,đŽÀ□s,·,é,É,Í

- 1 f_fCf,,f<fAfbfv flfbfgf□□[fN,Ā□A□Ú'±□æ,İfGf“fgfŠ,đ'ı'đ,μ,Ü,·□B
- 2 [,»,'¼] ,đfNfŠfbfN,μ□A[fGf“fgfŠ,Æf,ff€,İvf□pfefB,İ•Ö□W] ,đfNfŠfbfN,Ü,·□B
- 3 [fXfNfŠfvg] f^fu,Ā□A[ŽŸ,İfXfNfŠfvg,đŽÀ□s,·,é] ,đ'ı'đ,μ□AfXfNfŠfvg-¼,đ'ı'đ,μ,Ü,·□BSWITCH.INF ,İfZfNfVf†f“ fwfbf_□[,əfXfNfŠfvg-¼,Æ,μ,Ā•\Ž!,³,é,Ü,·□B
 [fXfNfŠfvg,İ•Ö□W] ,đfNfŠfbfN,·,é,Æ□AfXfNfŠfvg,đ•Ö□W,·,é,±,Æ,à,Ā,«,Ü,·□B
- 4 [OK] ,đfNfŠfbfN,μ□AŽŸ,É [f_fCf,,f<] ,đfNfŠfbfN,μ,Ü,·□B

,±,İfGf“fgfŠ,Éf_fCf,,f<,·,é,Æ□A'ı'đ,μ,½fXfNfŠfvg,É,æ,è□AfŠf,□[fg
fzfXfg,Éf_fCf,,f<,·,é'Ö,Ü,½,İf_fCf,,f<,μ,½CEă,É□AfŠf,□[fg fffofCfX,Æ,İ,·,x,Ā,ı'Ê□M,əŽÀ□s,³,é,Ü,·□B
ŠÖ~A□€-Ú

RAS —p,İfXfNfŠfvg,đ□i□-,·,é

DEVICE.LOG ,É,æ,éfXfNfŠfvg,İfgf%øfuf<fVf...□[fefBf“fO

DEVICE.LOG ,É,æ,éfXfNfŠfVfvg,lfvgf%ofuf·fVf...[fEfBf“fo

Windows NT ,Á,ÍARAS Af,fff€A, ,æ,ÑfŠf, [fg fffofCfX, iŠÖ,ÁCEđŠ, ,é,Ä, t ,é, ,x,Ä, i'ÉM fñ, lf fO, đŽúW, Á, «, Ü, ·Bf fO, É, Í AfŠf, [fg fffofCfX, ©, ç·ñ , ,é, éfGf % [, àŠÜ, Ü, é, Ü, ·B, ±, lf fO, É, æ, è AfXfNfŠfVfvg, i“ @ , đ-W, °, é áŠQ, đCE @, Á, , é, ±, Æ, a, Á, «, Ü, ·B DEVICE.LOG ftf@fCf<, đ [- , , é, É, Í AfCEfWfXfvgfŠ, Áf fO, iŽúW, đ—LCEø, É, μ, Ü, ·Bf fO, iŽúW, đ—LCEø, É, , é, Æ Assystemroot\SYSTEM32\RAS fffBfCEfNfvgfŠ, É DEVICE.LOG ftf@fCf<, a [- , , é, Ü, ·B

DEVICE.LOG ftf@fCf<, đ [- , , é, É, Í

- 1 , , x, Ä, i Ú' ±, đ ø' f, μ AŽŸ, Éf fCf, , f fAfbfv flfbfgf [fN, đ [- , μ, Ü, ·B
- 2 REGEDT32.EXE , đŽÁ s, μ AfCEfWfXfvgfŠ fGfffBf^ , đ N“ @ , μ, Ü, ·B
- 3 fCEfWfXfvgfŠ, Á AŽŸ, lfL [, ÉfAfNfZfX, μ, Ü, ·B

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RasMan\Parameters

4 ŽŸ, i, æ, s, É ALogging fpf%of [f^ , i' l, đ 1 , É · i X, μ, Ü, ·B

Logging: REG_DWORD: 0x1

5 fCEfWfXfvgfŠ fGfffBf^ , đ [- , μ, Ü, ·B

fŠf, [fg fAfNfZfX, đ Ä“ xŠJŽn, , é, © A, Ü, ½, í Remote Access Server fT [frfX, đŠJŽn, , é, Æ (fRf“ fsf... [f^ , æÄ, Ñ o, μ, đŽó, , é' s, i [é [] Af fO, iŽúW, aŠJŽn, , é, Ü, ·B Windows NT , đVfffbfvgf_fEf“ , μ, Ä Ä N“ @ , , é K—v, í , , è, Ü, , ñ B

f fCf, , f, , Ä Ú' ±, , é, Æ AfXfNfŠfVfvg, aŽÁ s, , é, Ü, ·B fXfNfŠfVfvg, iŽÁ s't, ÉfGf% [, a“ - [, , é, Æ AfXfNfŠfVfvg, iŽÁ s, i' t Ž~ , , é, Ü, ·B, ±, i, æ, s, É [é [] , í ARAS , đ [- , μ AfefLfXfg fGfffBf^ , đŽg, Á, Ä DEVICE.LOG , đ · Ž i, μ A—â' è, i % Ó [Š, đ' T, μ, Ä, , ¾, , ç, [B [u · sŠ @ ' S, È SWITCH.INF fXfNfŠfVfvg, i— á [v, Á, í A · sŠ @ ' S, ÉfXfNfŠfVfvg, Æ A Ú' ±, aŽ , s, μ, ½, Æ, «, É [- , , é, é DEVICE.LOG , É, Á, t, Ä à -¾, μ, Ä, t , Ü, ·B

' [RAS , Ü, ½, í Remote Access Server fT [frfX, đ' á Ž~ , μ, Ä Ä“ xŠJŽn, μ, È, ç CEÄ, è A, , x, Ä, i CEÄ, Ñ o, μ, i < L ^ , a DEVICE.LOG , É' Ç % Á, , é, Ü, ·B, ±, i, ½, B ACEä, Á' ² [, μ, ½, è A—â' è, đ % đ CE ^ , μ, ½, è, , é, ½, B, i [d—v, È [i' ñ, a DEVICE.LOG ftf@fCf<, ÉŠÜ, Ü, é, é [é [] , í A, ±, lf tf@fCf<, lfRfs [, đ [- , μ A, Ü, ©, i— ¼' O, đ · t, , Ä · Ü' ¶ , μ, ½ CEä, Á ARAS , Ü, ½, í Remote Access Server fT [frfX, đ Ä“ xŠJŽn, μ, Ü, ·B

ŠÖ~A [€—Ü

·sŠ@'S,È SWITCH.INF fXfNfŠfVfvg, i—á

DEVICE.LOG , i—á

RAS —p. lfXfNfŠfVfvg, đ [- , , é

SWITCH.INF , đŽÁ s, , é

•sŠ®'S,È SWITCH.INF fXfNfŠfvg,ì—á

ŽŸ,lfXfNfŠfvg,íAÚ±,μ,æ,π,Æ,μ,½fT[fXf,É'í,μ,Ä³í,É"®ì,μ,È,ç•sŠ®'S,È—á,Å,·BDEVICE.LOG
,ÉfO,ðŽûW,·,é,æ,π,ÉÝ'è,μ,Ä,±,lfXfNfŠfvg,ðŽÀs,μ,½Æ<%oÉAfŠf,lf fRf"fsf...

[f^,afXfNfŠfvg,©,ç,³,ç,ÉfRf}f"fh,ðŽó, Žæ,é,±,Æ,ð'z'è,μ,Ä,ç,é,±
,Æ,ª,í,©,è,Ü,μ,½B¶¶¬,³,è,½fO,ì'So—í,É,Ä,ç,Ä,íA uDEVICE.LOG,ì—áv,ðŽQÆ,μ,Ä,,¾,¾,çB

[Gibraltar Net Login for MariaG]
; fŠf,lf fRf"fsf...[f^,ð%Šú%o»,·,éÅ%o,lfRf}f"fhB
COMMAND=

; fOflf" fvf"fvfg,Ü,ÄfXfLfbfv,·,éB
; ,Ä,Ü,èAfOflf" fvf"fvfg,ðŽæ"¾,·,é,Ü,ÄA
; 2 •bŠÖ,lfMfffbfv,Ä•š,,³,è,½•¶Žš—ñ,lfufbfN,ðCEJ,è•Ö,μŽóM,·,éB
OK=<match>"Login:"
LOOP=<ignore>

; fŠf,lf fRf"fsf...[f^,Éft[fU[-¾,ð'—M,·,éB
COMMAND=MariaG<cr>

; 2 •bŠÖ,lfMfffbfv,ª,È,ç,ì,ÄA'¾,¿,É "Password:" ,Æ"äŠr,·,éB
OK=<match>"Password:"

; fŠf,lf fRf"fsf...[f^,ÉfpfXf[fh,ð'—M,·,éB
COMMAND=mUs3naB

ŠÖ~A€-Ú

DEVICE.LOG,ì—á

DEVICE.LOG ,ì—á

ŽŸ,ÉŽ!,.,ì,íA•sŠ@‘S,ÉfXfNfŠfvfg,ðŽÀ□s,μ,½,Æ,«,É□□—,³,ê,½ DEVICE.LOG
ftf@fCf<,Á,·BfRf□f“fg□s,í□Aftf@fCf<,ì“à—e,ð,í,©,è,â,.,.,é,½,ß,É□Aftf@fCf<,ì□¶□—CEã,É‘Ç
%oÁ,μ,½fRf□f“fg,Á, ,é,±,Æ,É‘□^Ó,μ,Ä,,¾,³,ç□B

Remote Access Service Device Log 08/23/1996 13:52:21

; ,±,ìfZfNfVf+“f“,í□ARAS ,Æf,fff€,ìŠÒ,ì‘É□M“à—e□B

Port:COM1 Command to Device:AT&F&C1&D2 W2\G0\J0\V1 S0=0 S2=128 S7=55

Port:COM1 Echo from Device :AT&F&C1&D2 W2\G0\J0\V1 S0=0 S2=128 S7=55

Port:COM1 Response from Device:

OK

Port:COM1 Command to Device:AT\Q3\N7%COM1

Port:COM1 Echo from Device :AT\Q3\N7%COM1

Port:COM1 Response from Device:

OK

; fŠf,□[fg fRf“fsf...□[f^,Éf_fCf,,f<.,éRf}f“fh,ðŽÀ□s,μ□A□Ú‘±,É□—CE÷,.,é□B

Port:COM1 Command to Device:ATDT1 206 555 5500

Port:COM1 Echo from Device :ATDT1 206 555 5500

Port:COM1 Response from Device:

CONNECT 14400/REL

Port:COM1 Connect BPS:19200

Port:COM1 Carrier BPS:14400

; □Á□%o,ì null fRf}f“fh,ðfffofCfX,É‘—□M,.,é□B

Port:COM1 Command to Device:

Port:COM1 Response from Device:

_ [2J_ [H

Welcome to Gibraltar Net, a service of: Trey Computing, Inc.

Problems logging in? Call us at 555-5500 between 8:00am and 8:00pm Mon-Sat.

NOTE: Your software must support VT100 (or higher) terminal emulation!

Port:COM1 Response from Device:P

; □ã,ì□s,í□A"Please" ,Æ,ç,æ‘PCEê,ì“r’t,É

; 2 •bŠÒ,ìfMffffbfv,â, ,é,±,Æ,ðŽ!,μ,Ä,ç,Ü,·□B

; fXfNfŠfvfg,âŽ,“s,μ□A□ã,ì□s,ì%ož“šCEã,É DEVICE.LOG ,â□|—¹,μ,Ä,ç,é□é□‡,í□A

; ,±,ì 2 •bŠÒ,ìfMffffbfv,ðfXfNfŠfvfg,Á□|—¶,μ,È, ,é,ì,È,è,Ü,¹,ñ□B

; null ,ì COMMAND= □s□A

; Ü,½,í OK=response ,Æ LOOP=<match> ,ì’g,Ý□‡,í,¹,ðŽg,ç,Ü,·□BOK=response AND LOOP=<match>
COMBINATION.

Port:COM1 Response from Device:lease turn OFF your Caps Lock if it is on now.

Please enter your login name and password at the prompts below.

- Log in as "guest" to take a look around the system.
- Log in as "new" to create an account for yourself.

Login:

; ft[fU[-¼,ðfRf}f“fh,Å’—M,·,éB
Port:COM1 Command to Device: MariaG
Port:COM1 Echo from Device : MariaG
Port:COM1 Response from Device:
Password:

; fpfXf[fh,ðfRf}f“fh,Å’—M,·,éB
Port:COM1 Command to Device: mUs3naB
Port:COM1 Echo from Device : mUs3naB

; fšf,[fg fRf“fsf...[f^,Å,íAf[fOfCf“Žè±,æP±³,è,Ü,·,ªA
; fXfNfšfvfg,í,±,è^Éã’±s,³,è,Ü,¹,ñB
; Ž“@f[fOfCf“,íA,±,ìŽž“_,ÅŽ,“s,µ,Ä,ç,Ü,·B
Port:COM1 Response from Device:

,±,ífXfNfšfvfg,íA½,,ífšf,[fg fRf“fsf...[f^,Å,í³í,É“@í,µ,Ü,·B,µ,©,µA,±,ífšf,[fg fRf“fsf...
[f^,ìè±,íA,æ,è¹²,,ì%ž“š,ð’—M,µAfT[fRfX,ðšŽn,·,éfRf}f“fh,ìŽóM,ð’z’è,µ,Ä,ç,Ü,·B,±
,ífXfNfšfvfg,ðš@-³,¹,é,É,íAfšf,[fg fRf“fsf...[f^,©,ç,ì%ž“š,ì±,«,ð’m,Á,Ä,ç,È,¯,è,Î,È,è,Ü,¹,ñBRAS
f^[f~fif<,ðžg,Á,Äžè“@,Åf[fOfif“,·,é,ÆAf[fOfif“Žè±,ì±,«,íAZÿ,ì,æ,æ,É,È,è,Ü,·B

Gibraltar Net offers you several network services:

Service

- SHell
- UPload
- DOwnload
- PAssword
- PPP
- SLIP

Please enter a service:

,µ,½,ª,Á,ÄAZÿ,ìs,ð’Ç%Á,µ,ÄfXfNfšfvfg,ðš@-³,¹,Ü,·B

COMMAND=<cr>

OK=<match>"Please enter a service:"

LOOP=<ignore>

ã,ìs,ðfXfNfšfvfg,É’Ç%Á,µ,½æãARAS ,ðÄ“xšŽn,µ,Äfšf_fCf,,f<,·,é,ÆAÚ’±,ª-æ÷,µ,Ü,·B

RAS ,ì”Ä—p,ífXfNfšfvfg,ª³í,É“@í,µ,È,çè±,íA,±,è,ç,ífKfCfhf%ofCf“,É%o^,Á,ÄAÚ’±

,ª-æ÷,·,é,æ,æ,ÉfXfNfšfvfg,ðC³,µ,Ä,,¾,¾,çB,Ü,·A”Ä—p,ífXfNfšfvfg,ð SWITCH.INF

,ì--“ö,ÉfRfs[.,µAZÿ,ÉÚ’±óµ,É±,í,¹,ÄfRfs[.,ðC³,µ,Ü,·B

ŠÖ~A€-Ú

•sŠ@’S,È SWITCH.INF fXfNfšfvfg,ì—á

,Ü, ©, Ì Microsoft RAS fNf%ofCfAf“fg,ÁfXfNfŠfvg,ðŽg,æ

Microsoft RAS Version 1.0 (LAN Manager □ã,ÅŽÀ□s,³,ê,Ü,·) ,Á,Í□ARAS f^□[f~fif<,ð<N“ © ,μ,½,è□A.INF
ftf@fCf<,ìfXfNfŠfvg,ðŽg,Á,½,è,·,é,±,Æ,Í,Á,«,Ü,¹,ñ□B

Microsoft RAS Version 1.1a (LAN Manager □ã,ÅŽÀ□s,³,ê,Ü,·) ,Á,Í□APAD.INF ,ì,Ý,ðfTf|□[fg,μ,Ä,ç,Ü,·□B,±
, Ì PAD.INF ftf@fCf<,ì□\•¶,Í□AMicrosoft RAS ,ìÆã,ìfo□[fWf†f“,Æ,Í,í,·,©,É^Ù,È,é,±,Æ,É'□^Ó,μ,Ä,,³/₄,³,ç□B

Windows NT Version 3.1 ^È□~ ,ì Microsoft RAS ,Á,Í□ARAS f^□[f~fif<,Æ□ASWITCH.INF ,” ,æ,Ñ PAD.INF
,ìfXfNfŠfvg,ðfTf|□[fg,μ,Ä,ç,Ü,·□B

3/4f,fff€,iŠT—v

,±,±,Å,í□AfŠf,□[fg fAfNfZfX fT□[frfX,ÅfTf]□[fg,³,é,Ä,ç,È,çf,fff€,ÉŠÖ,·,é□î•ň,đ'ň<Ÿ,μ□Af,fff€,ìfXfNfŠfVfg
ftf@fCf< MODEM.INF ,ì□C□³•û-@,đ□à-³/₄,μ,Ü,·□B,±,ìfXfNfŠfVfg ftf@fCf<,É,í□AfŠf,□[fg fAfNfZfX
fT□[frfX,ÅfTf]□[fg,³,é,Ä,ç,éŠeŽif,fff€,ì□î•ň,^a<L□q,³,é,Ä,ç,Û,·□B,±,ìftf@fCf<,đŽŸ,ì□é□†^ÉŠÖ,ì—□—
R,Å□C□³,μ,È,ç,Ä,³/₄,³,ç□B

- fTf]□[fg,³,é,Ä,ç,È,çf,fff€—p,ìfZfNfVf†f“,ì'Ç%oÁ,·,é□é□†
- f,fff€,ì□Å'â'É□M'—“x,đ 57600bps (frfbfg/•b) ,É□ã,°,é,È,Ç□AŠù'¶,ìfGf“fgfŠ,đŠg'£,·,é□é□†

fTf]□[fg,³,é,Ä,ç,È,çf,fff€,đŽg,π,¹/₂,β,É MODEM.INF ,đ□C□³,·,é•û-@,É,Ä,ç,Ä,í□A□uf,fff€,ìfXfNfŠfVfg
ftf@fCf<,iŠT—v□v,đŽQ□Æ,μ,Ä,³/₄,³,ç□B

□Å'â,ì³□kÆø—!,đ³/₄,é,¹/₂,β,É□,„□§,·,éŽ—□€,É,Ä,ç,Ä,í□A□u^{^3}□k,ÉŠÖ,·,éŽw□j□v,đŽQ□Æ,μ,Ä,³/₄,³,ç□B

f,fff€,lfzfbfgfAfbfv,İŠT—v

f_fCf,,f<fAfbfv flfbfgf□□[fN,Å,Í□Af,fff€,İ□«”\,ð□\•ª,ÉŠ^—p,Å,«<é,æ,æ,É□AZÏ,Ì,æ,æ,È,³,Ü,´,Ü,È<@”\,ªfTf] □[fg,³,è,Ä,ç,Ü,·□B

- fn□[fhfEfFfA.ftf□□[□\$CEä
- f,fff€,É,æ,éfGf%□□□\$CEä
- f,fff€,É,æ,éff□[f^³□k
- f,fff€ fRf}f“fh,İŽè”@“ü—Í
- 14,400bps□A19,200bps□A28,800bps□A,“,æ,Ñ 38,400bps (,³,ç,É□A□é□‡,É,æ,Ä,Ä,Í 57,600bps ,à) ,İ,´—É□M

Žg—p,·,éf,fff€,Í□□wWindows NT fn□[fhfEfFfACEÝŠ·□«fŠfXfg□x,ðŽQ□Æ,μ□A,Å,«<é,¾,~ Windows NT ,ÅfTf]□[fg,³,è,Ä,ç,é<@Ží,©,ç‘l,Ô,æ,æ,É,μ,Ä,,¾,³,ç□B,±,lfŠfXfg,É<“°,ç,è,Ä,ç,éf,fff€,Í□AMicrosoft ŽĐ“à,İfefXfg,É,“,ç,ÅfŠf,□[fg fAfNfZfX f\ftfgfEfFfA,ÅŽg,!,é,±,Æ,ªŠm”F,³,è,Ä,ç,Ü,·□B

‘□ CEÝŠ·□«,ðŠmŽÀ,É,·,é,É,Í□AfŠf,□[fg fAfNfZfX fT□[fo□[É□Ú´±,³,è,Ä,ç,éf,fff€,Æ“~ ,¶Ží—p,İf,fff€,ðŽg,ç□A“~ ,¶□%Šú´É□M´—“x,ð‘l’ð,μ□A“~ ,¶□«”\,ð—LCEø,É,μ,Ä,- ,¾,³,ç□B“~ ,¶f,fff€,ð‘l,Í,É,ç□é□‡,Í□A□,È,,Æ,àfT□[fo□[lf,fff€,Æ CCITT <KŠi,ª“~ ,¶f,fff€,ð‘l,ñ,Ä,- ,¾,³,ç□B

fTf]□[fg,³,è,Ä,ç,È,çf,fff€,Åf_fCf,,f<fCf“,·,é•ù-@,É,Ä,ç,Ä,Í□A□uf,fff€,İfXfNfŠfVfg.ftf@fCf<,İŠT— v□v,ðŽQ□Æ,μ,Ä,,¾,³,ç□B

f,fff€,ð•İ□X,μ,¾,è□A□V,μ,çf,fff€,ðfCf“fXfg□[f<,μ,¾,è,·,é,É,Í

- 1 fRf“fgf□□[f< fpf]f<,İ [flfbfgf□□[fN] fAfCfRf“,ðf_fuf<fNfŠfbfN,μ,Ü,·□B
- 2 [fT□[frfX] f^fu,Å□A[fŠf,□[fg fAfNfZfX fT□[frfX] ,ðfNfŠfbfN,μ□AZÏ,É [fvf□fpfefB] ,ðfNfŠfbfN,μ,Ü,·□B
- 3 □Ú□x,É,Ä,ç,Ä,Í□A[fwf<fv] ,ðfNfŠfbfN,μ□A□à-¾,ðŽQ□Æ,μ,Ä,,¾,³,ç□B

ŠÖ~A□€-Ü

f,fff€,ðfefXfg,·,é

f,fff€,İ<@”\,ð□Ý‘è,·,é

fn□[fhfEjFfA ftj□□[□sCEä

fn□[fhfEjFfA,É,æ,éfnf“fhfVfFfCfN,ð—LCEø,É,μ,Û,·□B,±,ì<@“\,É,æ,è□Afff□[f^,ª,ç,Á,Ï,ç,É,È,Á,Ä
%oñ□ü,Éff□[f^,ð’—□M,Å,«,È,,È,Á,½,Æ,«,â□A<t,É’—□M%oÅ“\,É,È,Á,½,Æ,«,É□Af,fff€,ªfŠf,□[fg fAfNfZfX f\
ftfgfEjFfA,É“` ,ì,é,±,Æ,ª,Å,«,é,æ,π,É,È,è,Û,·□B,±,è,É,æ,è□AfŠf,□[fg fAfNfZfX f\ftfgfEjFfA,Í□A•K—v,É
%ož,¶,Ä^èŽž“ì,Éff□[f^,ì“]’—,ð’+Ž~ ,Å,«,Û,·□Bfnf“fhfVfFfCfN,Í□Afff□[f^,ì“`’—,ð□#—□%o»,μ□Afì□[fo□[f%of“
fGf%o□[,ì”□¶,ð-h,®,½,ß□ACE<%oÊ“ì,Éff□[f^“]’—,ì’S’ì“ì,ÈfXf<□[fvfbfg,ªCEü□ä,μ,Û,·□B

f,fff€,É,æ,éfGf%o[]\$€ä

ff[]f^ fuf[]fbfN,ìfGf%o[][,ð[],%oñ[]ç'·€Ÿ[] (CRC) ,É,æ,Á,Ä'²,×,Ü,·[]Bf,fff€,É,æ,éfGf%o[][]\$€ä,ð—
L€ø,É,·,é,Æ[]Af,fff€,í[]³,μ,"]—,³,ê,È,©,Á,½ff[]f^,ð[]Ä"]—,μ,Ü,·[]B,μ,½,³,Á,Ä[]Af,fff€ŠÔ,Å,ìfGf%o[][,í"-
[]¶,μ,Ü,¹,ñ[]B[]Ú[]×,É,Â,ç,Ä,Í[]A[]uMNP4[]v, ",æ,Ñ[]uV.42[]v,ðŽQ[]Æ,μ,Ä,,³/4,³,ç[]B

f,fff€É,æ,éff[]f^³k

f,fff€ŠŌ,Ā'—ŽóM,³,ê,éff[]f^,ð³k,μ□A"']'—,³,ê,éff[]f^,ìfofCfgy",ðŒ, ,ç,μ,Û,·□B,±,ìŒ<%oÉ□A"']'—
ŽžŠŌ,ð'Z□k,μ,Û,·□B,ç,ì'ò"x'Z□k,³,ê,é,©,í□A"']'—,³,ê,éff[]f^,ìç'·"x,É,æ,Ā,ĀŒ^,Û,è,Û,·□B

'□ f,fff€æ,è,àfRf"fsf...[]f^,ì•û,ª—~—p%oĀ"\,Èfpf^[]f" fofbftf@,ª,í,é,©,É'â,«,ç
,½,ß□Afn[]fhfEjFfA^³k,æ,è,àfvtfgfEjFfA^³k,ì•û,ªŒø—! "l,Ā,·□B,Û,½□Af,fff€,ì³k<@"\,ðŽg,κ
,Æ□Af,fff€,í□A"à•",ìfpf^[]f" fofbftf@,ð-,,ß,é,¾, ,ì—È,ìff[]f^,ªfRf"fsf...[]f^,©,çf,fff€,Ö"']'—
,³,ê,é,Û,Ā□Ā□%o,ì"']'—,ð□s,í,,□A'x%o,,,ª"□¶,μ,Û,·□BfvtfgfEjFfA^³k,Ā,í□A^³k,ì,½,ß,ìff[]f^"']'—
,ìfRf"fsf...[]f^,Æf[]f,š,šŌ,Ā□s,í,è,Û,·ª□A,±,ì'—"x,ìfRf"fsf...[]f^,Æf,fff€
,ìšŌ,Ā,ì"']'—'—"x,æ,è, ,Ā,Æ□, '—,Ā,·□B,³,ç,É□AfvfjgEjFfA^³k,Ā,í□Af,fff€,Æf,fff€
,ìšŌ,ìfZfOf[]fg,¾, ,Ā,í,È,□Afrf"fsf...[]f^šŌ,ìfšf"fn'S'ì,ð³k,³,è,½ff[]f^,ª"']'—,³,ê,é,±
,Æ,É,È,è,Û,·□B

^è"É,É□AŠù,É³k,³,è,Ā,ç,éff[]f^,ð³k,μ,Ā,à□A^³k—,ª□,Û,é,±,Æ,í, ,è,Û,¹,ñ□B,μ,½,ª,Ā,Ā□Af,fff€
,ì³k<@"\,ÆfvfjgEjFfA^³k,ð"~Žž,ÉŽg—p,·,x,«,Ā,í, ,è,Û,¹,ñ□BŽĀ□Û,É□Af,fff€,ªŽg,κfAf<fSfšfYf€
,É,æ,Ā,Ā,í□A—¼•û,ì³k,ð□s,κ,Æ□A"']'—,³,ê,éff[]f^,ìTfCfY,ª'â,«, ,È,é□è□‡,à, ,è,Û,·□B

f,fff€,ì<@”\,ðŸ’è,.,é

f,fff€,ì<@”\,ðŸ’è,.,é,É,í

1 f_fCf,,f<fAfbfv flfbfgf□□[fN,Å□A“d~b’ fGf“fgfŠ,ð’I’ð,μ□AZÿ,É [,»,ì’¼4] ,ðfNfŠfbfN,μ,Ü,·□B

2 [fGf“fgfŠ,Æf,fff€,ìfvf□fpfefB,ì•Ò□W] ,Ü,½,í [fGf“fgfŠ,Æf,fff€,ìfvf□fpfefB,ì•;□»] ,ðfNfŠfbfN,μ,Ü,·□B

3 [Šî-{} f^fu,ì [f_fCf,,f<•ù-@] f{fbfNfX,Åf,fff€,ð’I’ð,μ□AZÿ,É [□□-] ,ðfNfŠfbfN,μ,Ü,·□B

4 [f,fff€,ì□□-] f_fCfAf□fO f{fbfNfX,Å□Af,fff€,ì’É□M’-“x,ðŸ’è,μ□Af,fff€^³□k,È,Ç,ìfn□[fhfEJfFAŠÖ~A,ì<@”\ ,ð’I’ð,μ,Ü,·□B

’□ Žg—p,μ,Ä,ç,éf,fff€,ÅfTf□[fg,³,ê,Ä,ç,È,ç<@”\,ð’I’ð,μ,Ä,à□Af,fff€,ì□«”\,É,í%½,à%œ<¿,í, ,è,Ü,¹,ñ□B

f,fff€,ð•ï□X,μ,½,è□A□V,μ,çf,fff€,ðfCf“fXfg□[f<,μ,½,è,.,é,É,í

► fRf“fgf□□[f< fpf|f<,ì [flfbfgf□□[fN] fAfCfRf“,ðf_fuf<fNfŠfbfN,μ,Ü,·□B[fT□[frfX] f^fu,Å□A[fŠf,□[fg fAfNfZfX fT□[frfX] ,ð’I’ð,μ□AZÿ,É [fvf□fpfefB] ,ðfNfŠfbfN,μ,Ü,·□B□Ü□x,É,Ä,ç,Ä,í□A,±,ìf_fCfAf□fO f{fbfNfX,ì [fwf<fv] ,ðfNfŠfbfN,μ□A□à-¾,ðŽQ□Æ,μ,Ä,,¾,³,ç□B

^3k,ÉŠÖ,·,éŽw

f,fff€,É,æ,é^3k

f,fff€,ì^3k<@“\,ð—LCEø,É,·,éèè±,íAfl[f]g,ì'ÉM'—“x,ð 38400bps ,Ü,½,í 57600bps ,ÉÛ'è,µ,Ä,-
,¾,¾,çB,¾,ç,ÉAfl[f]o[f%of“ fGf%o[,ð“fl,¾,¾,É,ç,Ä,·,·,ÈŠ,,èž,Ý,ð^—,Ä,«,é,æ,æ,É,·,é,É,íA16550
CEÛŠ,ìfvfšfAfk f[f]g,Æ 386/33 ^èä,ì CPU ,ª•K—v,Ä,·BÄ“l,ÈfXfk[fvfbfg,íff[f^,ì^3k—
,ÄCE^,Ü,é,ì,ÄAfl[f]g,ì'ÉM'—“x,ð 57600bps ,ÉÛ'è,µ,Ä,àAfk[fvfbfg,ª 57600bps ,É<ß,Ä,-
,Æ,íCEÀ,è,Ü,¹,ñB

,½,Æ,ì,íAfk,fff€ŠÖ,ì“]—“x,ð 14400bps ,ÉÛ'è,µ,½ V.32bis f,fff€,ðŽg,Ä,ÄAfk,fff€,ì^3k<@“\
,ðflf“ ,É,µ,Äf[f]g,ì'—“x,ð 57600bpx ,ÉÛ'è,µ,ÄÜ'±,µ,½,Æ%¾è,µ,Ü,·B,±,ìèè±A“]—,¾,è,éff[f^ ,ª 2
•ª,ì 1 ,É^3k,¾,è,½,Æ,«,ÉAZÄÜ,ìfXfk[fvfbfg,ì½<í 28800bps ,É,È,è,Ü,·Bfk[fvfbfg,ð,±,è,æ,è,à
57600bps ,É<ß,Ä,·,é,±,Æ,ª,Ä,«,é,ì,íA,æ,è,·,ç“ä—! ,Ä^3k%Ä“\,Èff[f^ (,½,Æ,ì,íAfk[f^ ,ª 0
,ì,©,è,ìftf@fCf<A,Ü,½,ì^è-È·F,ìfxfbf}fbfv ftf@fCf<,È,Ç) ,ð“]—,·,éèè±,¾,·,Ä,·B'ÉíA,±,ì,æ,æ
,É^3k—,ªŽACE»,¾,è,é,±,Æ,í, ,è,Ü,¹,ñB

'Éí,ìfn[f]fhfEfffA,Ä,íAfl[f]g,ì'—“x,ð ,Ü,è,·,Û'è,·,é,ÆAfl[f]o[f%of“ fGf%o[,ì”-
fl,·,éŠèCE“« ,ª,Ü,é,½,ßAMODEM.INF ,Ä,íAÄ'á'ÉM'—“x,í 38400bps
,ÉÛ'è,µ,Ä, ,è,Ü,·B,·,·,ÉM,É'í%ž,Ä,«,éfn[f]fhfEfffA,ðŽg,Ä,Ä,ç,éèè±,íA57600bps ,ÉÛ'è,µ,ÄÜ'±
,µ,Ä,à,©,Ü,ç,Ü,¹,ñ,ªAŠù,Éà-¾,µ,½,æ,æ,È—R,©,çA57600bps ,É•íX,µ,½,©,ç,Æ,ç
,Ä,Ä•K,·,µ,àfXfk[fvfbfg,ªCEüã,·,é,Æ,íCEÀ,è,Ü,¹,ñB,Ü,½AMicrosoft ,Ä,íA,Ç,ìf,fff€,É,Ä,ç,Ä,à
57600bps ,Ä,ì'ÉM,ìfefXfg,µ,Ä,ç,Ü,¹,ñB

f\ftfgEfffA^3k

fšf, [f]g fAfnfzfx ft[f]rX,É,ì\ftfgEfffA,É,æ,éff[f^3k<@“\,à—p^Ó,¾,è,Ä,ç,Ü,·B,±
,ì,½,ßAfk[fvfbfg,ðCEüã,¾,¾,é-Ü“l,Äf,fff€,ì^3k<@“\,ðflf“ ,É,·,é•K—v,í, ,è,Ü,¹,ñBV.32bis f,fff€
,ðŽg,Ä,Ä,ç,éèè±,íA\ftfgEfffA^3k,ð—LCEø,É,µ,Ä 14400bps ,Ä'ÉM,·,è,íA•½<í 28800bps
,ìfXfk[fvfbfg,ð“¾,é,±,Æ,ª,Ä,«,Ü,·BfefXfg,ìCE%É,©,ç,íAfk,fff€,É,æ,é^3k,æ,è,àf\
ftfgEfffA^3k,ðŽg,Ä,½•Ü,àfXfk[fvfbfg,ªCEüã,·,é,±,Æ,ª,í,©,Ä,Ä,ç,Ü,·B,Ü,½A\ftfgEfffA^3k,ðŽg,æ
,ÆAŠ,,èž,Ý,ì“fl•p“x,ªá%º,µAfl[f]o[f%of“ fGf%o[,ì”fl,·,éŠèCE“« ,ª,È,·,è,è,·B
A—Ç,ìCE%É,ð“¾,é,É,íAfk,fff€,É,æ,éGf%o[[CEà,ð—LCEø,É,µAfk,fff€^3k,ðflf,É,µ,ÄAfk
ftfgEfffA^3k,ð—LCEø,É,µ,Ä,,¾,¾,çB

H<Æ<KŠi,É,Â,č,Ä

f,fff€,í,č,ì<@Ží,à,;,x,Ä^Ù,È,é'~“x,ÅM+;đ'~M,;,é,½,βAf,fff€,ì»'č€³,ì'â•”•ª,ª CCIIT <KŠi,đì—
p,μ,Ä,č,Û,·BCCITT <KŠi,ì^è•” (Žâ,É,í^2•”•ª) ,É,íA,čfxf<,ì'w (fJfSfVfG[fVfJf”,É,č) ,đ'è<` ,; ,é<KŠi,à,č,-
,Ä,©ŠÜ,Û,é,Ä,č,Û,·B•;ì”,ì'ÉM'~“x,đfTf|fG,·,éf,fff€,É,íAZÿ,É<”,°,é<KŠi,ì,ž,·;ì”,ì<KŠi,đì—p,μ,Ä,č
,é,à,ì,à, ,è,Û,·B

V.21

V.22

V.22bis

V.23

V.29

V.32

V.32bis

MNP4

MNP5

V.42

V.42bis

Žÿ,ì•\,ÉŽì,·H<Æ<KŠi,ì,č,, ,é,©,É€<',μ,½f,fff€,đ'l,ñ,Ä,,¾,¾,čB

'ÉM'~“x (bps)	<KŠi
1200	V.22 ,Û,½,í Bell 212A
2400	V.22bis
9600	V.32
14400	V.32bis

fGf%o[f[šCä,Æff[f^³k

fGf%o[f[ù³fvf[fGfRf<,Æff[f[f^³kf[fGfRf<,đ<@”\,³,¹,é,É,íAÚ'±,ì—¼'[,ìf,fff€,ª—
¼•ù,Æ,à“ ,ìfvf[fGfRf<,đfTf|fG,μ,Ä,č,È, ,é,î,È,è,Û,¹,ñBf,fff€ŠÖ,ìÚ'±,ªŠm—š,³,é,½,çA,»,ì 2 'ä,ìf,fff€
,íŽ©“@“l,ÉfJfSfVfG[fVfJf”,đs,čAÅ“K,ìŠCEÿfvf[fGfRf<,đCE^è,μ,Û,·B

fvf[fGfRf<

MNP4

MNP5

U<KŠi

V.42

V.42bis

DEVICE.LOG ,ì<L~^,ðŠJŽn,.,é

DEVICE.LOG ftj@fCf<,É,íA\fff€,ÉŠÖ,.,é'ÇÖi•ñ,â<L~^,³,ê,Ü,·Bj,fff€,É%½,©-à'è,ª"¶,μAuf,fff€
_j'Á«v,É<Lq,³,ê,Á,ç,éŽwŽ!,É],Á,Á,à-à'è,ð%ðCE^,Á,«,É,çêê¶,íADEVICE.LOG ftj@fCf<,ð²,x,Á,-
,¾,³,çB,±,ìftj@fCf<,É<L~^,³,ê,½i•ñ,íAft[U],âfvXfef€ŠÇ-ŽÖ,ª-à'è,ð%ðCE^,.,é,Æ,«,É-~
p,Á,«,Ü,·B

DEVICE.LOG ftj@fCf<,íA\systemroot\System32\RAS fffBfCEfNfgfŠ,É, ,è,Ü,·B

DEVICE.LOG ,ðì¶-,.,é,É,í

1 ,±,ìfwf<fv,ìŽè¶,ì"à-e,ðfNfŠfbfvf{¶fh,ÉfRfs[.,μARAS ,ðI-¹,μ,½CEã,àŽQ¶Æ,Á,«,é,æ,π,É,μ,Ü,·B

2 ,.,x,Á,ìÚ'±,ðØ'f,μARAS ,ðI-¹,μ,Ü,·B

3 REGEDT32.EXE ,ðŽÀ¶s,μ,ÄfCEfwfXfgfŠ,ðŠJ,«,Ü,·B

4 fCEfwfXfgfŠ,ÁAŽÿ,ìfL[.,ÉfAfNfZfX,μ,Ü,·B

HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\RasMan\Parameters

5 Logging fpf%of¶[f^,ì'l,ð 1 ,É•íX,μ,Ü,·B•íX,.,é,ÆAfpf%of¶[f^,ìŽÿ,ì,æ,π,É,È,è,Ü,·B

Logging:REG_DWORD:0x1

'¶ RAS ,ðÄ<N"®,.,é,©A,Ü,½,í fŠf,¶fg fAfNfZfX fT¶[rfX (CEÄ,Ño,μ,ðŽóM,.,é'π,ìfRf"fsf...
¶[f^,ìêê¶),ðŠJŽn,.,é,ÆAfpfO<L~^,ªŠJŽn,³,ê,Ü,·BWindows NT
,ðVfffbfgf_fEf",μ,ÄÄ<N"®,.,é•K-v,í, ,è,Ü,¹,ñB

f,fff€,ì"Á□«

,±,±,Á,í□AfŠf,□[fg fAfNfZfX fT□[frfX,ÁfTf]□[fg,³,è,Ä,ç,éf,fff€,ì"Á□«,É,Ä,ç,Ä□à-¾,μ,Û,·□BfTf]□[fg,³,è,Ä,ç,éf,fff€,ì^è—,É,Ä,ç,Ä,í□A□wWindows NT fn□[fhfEjFfAÇEYŠ-□«fŠfXfg□x (HCL) ,ðŽQ□Æ,μ,Ä,,¾,³,ç□B

fTf]□[fg,³,è,Ä,ç,éf,fff€,lfgf%ofuf<fvf...□[fefBf"fo,ðs,π,É,í

- 1 fP□[fuf<,³□³,μ,□Ú'±,³,è,Ä,ç,é,±,Æ,ðŠm" F,μ,Û,·□B□ufP□[fuf<,ì—vCE□□v,ðŽQ□Æ,μ,Ä,,¾,³,ç□B
 - 2 fP□[fuf<,³fŠf,□[fg fAfNfZfX fT□[frfX,ì—vCE□,ð-ž,½,μ,Ä,ç,é,ì,É□Ú'±,Ä,«,É,ç□è□±,í□Af,fff€,ìf}fjf... fAf<,ðŽQ□Æ,μ□Af,fff€,³□³,μ,fCf"fxfg□[f<,³,è,Ä,ç,é,©,Ç,π,©,ðŠm" F,μ,Û,·□B
 - 3 f,fff€,³□³,μ,fCf"fxfg□[f<,³,è,Ä,ç,é□è□±,í□A'[-fGf~f...fCE□[f^ fvf□fOf%of€ (Windows NT ,ì fnfCfp□[f^□[f~fif<,É,Ç) ,ðŽg,Á,Ä□Af,fff€,É³□í,ÉfRf}f"fh,ð—□M,Ä,«,é,©,Ç,π,©,ð²,x,Û,·□B□uf,fff€ ,ðfefXfg,·,é□v,ðŽQ□Æ,μ,Ä,,¾,³,ç□B
 - 4 ^è□ä,ì'€□ì,ðs,Á,Ä,à□Af,fff€,³fŠf,□[fg fAfNfZfX fT□[frfX,Á<@"\\,μ,È,ç□è□±,í□AfVfXfef€ŠÇ—□ŽÒ,É-â,ç□±,í,¹,Ä,,¾,³,ç□B
- '□ f,fff€,É%½,ç,©,ì-â'è,³, ,é□è□±,í□AfVfXfef€ŠÇ—□ŽÒ,É•ñ□□,μ,Ä,,¾,³,ç□B,±,ì•ñ□□,ðs,π ,Æ,«,É,í□A\systemroot\System32\RAS fffBfÇfNfgfŠ,É, ,éDEVICE.LOG ftf@fCf<,ì□o—í,àŠÇ— □ŽÒ,É"n,μ,Ä,,¾,³,ç□BDEVICE.LOG ftf@fCf<,ð□□¬,·,é•û-@,É,Ä,ç,Ä,í□A□uDEVICE.LOG ,ì<L~^,ðŠJžn,·,é□v,ðŽQ□Æ,μ,Ä,,¾,³,ç□B

ŠÖ~A□€-Ú

^è"É"ì,È"Á□«

Codex 326x fVfŠ□[fY,ì"Á□«

DataRace ,ì"Á□«

Datatrek ,ì"Á□«

Hayes ,ì"Á□«

MicroCom ,ì"Á□«

MicroGate ,ì"Á□«

MultiTech ,ì"Á□«

Octocom ,ì"Á□«

PDI ,ì"Á□«

Practical Peripherals ,ì"Á□«

Racal-Milgo ,ì"Á□«

Supra ,ì"Á□«

Telebit ,ì"Á□«

UDS Motorola ,ì"Á□«

US Robotics ,ì"Á□«

VenTel ,ì"Á□«

Western Datacom ,ì"Á□«

^è"É"İ,È"Á«

fŠf.[]fg fAfNfZfX,ÅfTf[]fg,³,è,Ä,ç,é,fffe,ðŽg,Á,Ä,ç,Ä,à[]wWindows NT fn[]fhfEjFfACEÝŠ.[]«fŠfXfg[]x (HCL) ,É^è—•Ž!,³,è,Ä,ç,é,Ü,©,İf,fffe,Æ[]A, ,ç,ä,éf,[]fh,ÅŠmŽÀ,É'É[]M,Á,«,é,Æ,íCEÀ,è,Ü,¹,ñ[]B

—á

^è" ,ì V.32bis f,fffe,Í[]Af,fffeŠÖ,ì'É[]M'—"x,ª 14,400bps ,ì[]è[]±,Á,à[]A'—"x,ª 14,400bps ,É[]Ý'è,³,è,½f[] []fg,Á,í[]³[]í,É<@"\,µ,Ü,¹,ñ[]BŽg—p,µ,Ä,ç,é V.32bis f,fffe,ª[]%Šú'—"x 14,400bps ,Á<@"\,µ,È,ç[]è[]±,í[]A[] %Šú'—"x,ð 19,200bps ,É•ì[]X,µ,Ä,,¾,¾,¾,ç[]Bf,fffe,ì[]%Šú'—"x,ð•ì[]X,·,é•ù-@,É,Á,ç,Ä,í[]A[]uf,fffe,ì<@"\ ,ð[]Ý'è,·,é[]v,ðŽQ[]Æ,µ,Ä,,¾,¾,¾,ç[]B

"à' f,fffe

Digicom Scout Plus ,È,Ç,ì^è" ,ì"à' f,fffe,í[]AWindows NT ,ìŽ©"®CEÝ[]o,Á,íCEÝ[]o,³,è,Ü,¹,ñ[]B,±,ì,æ,ª ,É[]è[]±,í[]AWindows NT ,ìRf"fgf[][]f< fpf[]f<,©,ç,» ,ìf,fffe,ðŽè"® ,Á'Ç%Å,µ,È,·,è,Ì,È,è,Ü,¹,ñ[]B,Ü,½[]Af,fffe ,ÁŽg,ª'É[]Mf[][]fg,ª—~—p%Å"\,Á,È,ç[]è[]±,í[]Af[][]fg,à'Ç%Å,µ,È,·,è,Ì,È,ç,È,ç%Å"\« ,ª ,è,Ü,·[]Bf[] []fg,í[]Af,fffe,ð'Ç%Å,·,é'Ó,É'Ç%Å,µ,È,·,è,Ì,È,è,Ü,¹,ñ[]B[COM[],ì[]Ý'è] f_fCfAf[]fO f_{fbfNfX,ðŠ},,É,í[]A,± ,ìf_{f^f" ,ðfNfŠfbfN,µ,Ä,,¾,¾,¾,ç[]B[]V,µ,çf,fffe,ìfCf"fxfg[][]f<] f_fCfAf[]fO f_{fbfNfX,ðŠ},,É,í[]A,±,ìf_{f^f" ,ðfNfŠfbfN,µ,Ä,,¾,¾,¾,ç[]B

fR[]f<fofbfN

fT[]fo[][f,fffe,Æ,µ,ÄfTf[][]fg,³,è,Ä,ç,é,fffe,í[]AfNf%oCfAf"fg f,fffe,Æ,µ,ÄŽg,Á,½,Æ,« ,ÉfR[]f<fofbfN<@"\ ,ðfTf[][]fg,µ,È,ç[]è[]±,ª ,è,Ü,·[]B

Žè"®f_fCf,,f<

ŽÝ,ì•\,í[]AŽè"®f_fCf,,f<,µ,½,Æ,« ,ìŠef,fffe,ì"Á[]« ,ðŽ!,µ,Ä,ç,Ü,·[]B

f,fffe	"Á[]«
Bocamodem M1440	f,fffe,ìfvf[]fgfRf< fìfSfvfG[]fVf#f" ,ÁŽ , "s ,µ,Ü,·[]B
Gateway 2000 Telepath Internal	fìfSfvfG[]fVf#f"[]— ¹CEã[]A•K, ,fT[]fo[][],©, ç[]Ø'f,³,è,Ü,·[]B
Intel SatisFaction 100	"F[]Ø,ÉŽ , "s,µ,Ü,·[]B
PDI-1000	Žè"®f_fCf,,f<,ìfTf[] []fg,³,è,Ä,ç,Ü,¹,ñ[]B
Racal-Milgo 2412	[]Ú'±CEã,àŽó~bŠí,ð-ß,·,±,Æ,ª,Á,« ,Ü,¹,ñ[]B
Ven-Tel 9600 Plus II	"F[]Ø,ÉŽ , "s,µ,Ü,·[]B

Codex 326x fVfŠ[]fY,ì"Á[]«

Codex 3260[]A3261[]A3262[]A3263[]A3264[]A,Ü,½,í 3265 ,ðŽg,Á,ÄŽÝ,ì,æ,ª,É[]ðCE[],Á[]Ú'± ,·,é[]è[]±,í[]Aftf[][]\$CEä<@"\,ðfìft,É,µ,Ä,,¾,¾,¾,ç[]B

- 2400 bps ,Ü,½,í 9600bps ,Á[]Ú'±,·,é[]è[]±
- []%Šú'—"x,ð 19,200bps ,Ü,½,í 38,400bps ,É[]Ý'è,µ,Ä,ç,Ä,í[]AfìfSfvfG[]fVf#f" ,Á'É[]M'—"x,ª 9600bps ,Ü,½,í 2400bps ,É—Ž,ì,é[]è[]±

Codex V.FAST (3260□A3261□A3262□A3263□A3264□A,Ü,½,Í 3265) f,fff€,đŽg,Á,ÄfŠf,□[fg fAfNfZfX
fT□[fo□[.É□Ú'±,μ□AfT□[fo□[.Ì•û,à Codex V.FAST f,fff€,đŽg,Á,Ä,ç,é□ê□#,Í□A•K, ,fn□[fhfEfFfA
ftf□□[□\$CEä,²—LCEø,É,È,Á,Ä,ç,é,±,Æ,đŠm" F,μ,Ä,,³/₄,³,ç□Bfn□[fhfEfFfA ftf□□[□\$CEä,²—³CEø,É,È,Á,Ä,ç
,é,Æ□A□Ú'±,Ä,«, ,□A"fffofCfX,ÍTf|□[fg,³,ê,Ä,ç,È,çf{□[fCE□[fg,É□Ø,è'Ö,í,è,Ü,μ,½" ,Æ,ç,xf□fbfZ□[fW,²•\
Ž,³,è,Ü,·□B

DataRace ,ì“Á□«

RediModem V.32bis

fGf%o□□\$CEä,“,æ,Ñftf□□□\$CEä,ª□A<□\$“l,Éfjf“,É,È,è,Ü,·□B

Datatrek ,ì“Á□«

Elite 624D

Šg'£<@“\,ã-³Œø,É,È,è,Û,·□B

Datatrek V.32

fNf%ofCfAf“fg f,fff€,Æ,μ,Ä,ì,ÝfTf|□[fg,³,ê,Û,·□B

Hayes ,i"Á□«

V-Series 9600

Hayes V-Series 9600 f,fff€,í□A□Ú'±□æ,lf,fff€,à Hayes V-Series 9600 f,fff€,ì□ê□‡,ì,Ý 9600bps ,Á□Ú'± ,Á,«,Ü,·□B

,±,lf,fff€,đfRf"fsf...□[f^,ÉfCf"fXfg□[f<,·,é'O,É□AfŠf,□[fg fAfNfZfX fT□[fo□[,à Hayes V-Series 9600 ,đŽg,Á,Ä,ç,é,©,Ç,κ,©,đŠm" F,μ,Ä,,¾,¾,ç□B•Ê,lf,fff€,đŽg,í,ê,Ä,ç,é□ê□‡,í□A2400bps ,Á□Ú'±,¾,ê,é%oÁ"\ □«,¾, ,è,Ü,·□B

Hayes Optima 14.4

US Robotics Sportster f,fff€,©,ç Hayes Optima 14.4 f,fff€,É□Ú'±,·,é,Æ□A,±,ì 2 ,Á,lf,fff€,í□Ú'± ,lfSfVfG□[Vf‡f",đ□s,κ,±,Æ,¾,Á,«,Ü,¹,ñ□B Hayes Optima 14.4 f,fff€,©,ç US Robotics Sportster 14.4 f,fff€,É□Ú'±,μ,½□ê□‡,í□A□³□í,É□Ú'±,¾,ê,Ü,·□B

MicroCom ,i"Á□«

QX 4232bis

Šg'£<@"\,ª-³Œø,É,È,è,Û,·□B

MicroGate ,l"Á«

MicroGate MG96

fGf%o[]\$CEä, ",æ,Ñftf[]\$CEä,ªA<[]\$“l,Éf|f“,É,È,è,Ü,·B

MicroGate MG144

fGf%o[]\$CEä, ",æ,Ñftf[]\$CEä,ªA<[]\$“l,Éf|f“,É,È,è,Ü,·B

MultiTech ,ì“Á□◀

MultiModem 224

ftf□□[□\$€ä,°□A<□\$“l,Éfj“ ,É,È,è,Ü,·□B

Octocom ,i"Á«

8324

fGf%o[]\$Eä," ,æ,Ñftf[]\$Eä,ªA<[]\$"l,Éfjf",É,È,è,Ü,·B

PDI ,i"Á«

PDI-1000

PDI 1000 ,íAfNf%oCfAf"fg f,fff€,Æ,μ,Ä,ì,ÝfTf[]fg,³,ê,Ü,·B

PDI-1000/S fCf"fefŠfWfFf"fg ff[]f^ fAf_fvf^

PDI-1000/S ,íAIBX fffWf^f<"d~b%oñü,ð%oi,μ,Ä_fCf,,f<fAfEfg—p,íf,fff€,Ü,½,íf,fff€ fv[]f<,ÉÜ'± ,·,é,½,β,ífffWf^f< fffofCfX,Ä,·BPDI ,íf,fff€,Ä,í ,·,è,Ü,¹,ñ,ªAf,fff€ fv[]f<,ÉÜ'±,³,ê,é,Æf,fff€,Æ" ,¶,æ,κ ,É<@"\,μ,Ü,·B

' PDI-1000/S ,ð%oi,μ,Ä RAS fT[]fo[],ÉÜ'±,·,é,Æ-â'è,ª"¶,·,éê¶,íAŽŸ,ì'€[]ðs,Á,Ä,,¾,¾,çB

- IBX fv[]fofCf_ªA"Á'è,ì"Ö[]t,Ä,ìCEÄ,Ño,μ,ð PDI ,©,ç,ìCEÄ,Ño,μ,Æ,μ,Ä^μ,κ,æ,κ,ÉfvfXfef€,ð\ []-,μ,Ä,ç,é,±,Æ,ðŠm" F,μ,Ü,·BIBX ,ì,» ,ì%oñü,ª PDI —p,É[]-³,ê,Ä,ç,È,çê¶,íACEÄ,Ño,μ't,É %oñü,ªØ'f,³,ê,Ü,·Bf_fCf,,f<fCf"—p,ì%oñü,Æf_fCf,,f<fAfEfg—p,ì%oñü,ìCEÄ•É,É[]-³,ê,Ä,ç ,É, ,é,î,È,è,Ü,¹,ñB
- [f,fff€,ì[]-] f_fCfAf[]fo f{fbfNfX,ÄAfT[]fo[],íf,fff€,ì'ÉM'—"x,É[]í,¹,Ä%Šú'—"x (bps) ,ðÝ'è,μ,Ü,·B[]%Šú'—"x (bps) ,ðÝ'è,·,é•ù-@,É,Ä,ç,Ä,íA[]uf,fff€,ì<@"\,ðÝ'è,·,é[]v,ðŽQ[]Æ,μ,Ä,- ,¾,¾,çBfT[]fo[],íf,fff€,ì'ÉM'—"x,ª,í,©,ç,È,çê¶,íAfVfXfef€SÇ—ZÖ,É-â,ç[]í,¹,Ä,,¾,¾,çB

Practical Peripherals ,ì“Á□«

Practical Peripherals 2400SA

fNf%ofCfAf“fg f,fff€,Æ,μ,Ä,ì,ÝfTf|□[fg,³,ê,Û,·□B

Practical Peripherals 2400MNP

Šg'£<@“\,ª-³Œø,É,È,è,Û,·□B

Racal-Milgo ,i“Á«

2412/2

DCE ,iÅ,‘-“x,íA2400bps ,ÉÝ’è,³,ê,Ü,·B

Supra ,ì“Á□«

Supra COM Card PCMCIA 144

fNf%oofCfAf“fg f,fff€,Æ,μ,Ä,ì,ÝfTf|□[fg,³,ê,Ü,·□B

Telebit ,l"Á

Telebit T1500

fNf%ofCfAf"fg f,fff€,Æ,μ,Ä,ì,ÝfTf|[]fg,³,ê,Û,·B

Telebit T1600

Šg'£<@"\,ª-³Eø,É,È,è,Û,·B

UDS Motorola ,i"Á«

UDS Motorola V.3225

Šg'£<@"\,ã-³Œø,É,È,è,Û,·B

UDS Motorola V.3227

DCE ,i"Á, '¬"x, í 9600bps ,É"Ý'è,³,ê,Û,·B

UDS Motorola FasTalk V.32/42bis

DCE ,i"Á, '¬"x, í 9600bps ,Á,·B

US Robotics ,ì“Á□«

HST

US Robotics HST f,fff€,í□ACEÁ—L,lfvf□fgfRf<,đŽg,Á,Ä,“ ,è□A,» ,lfvf□fgfRf<,đfTf□[fg,μ,Ä,ç,È,çf,fff€,Æ,í 2400bps ,æ,è’â,«,ç’É□M’—“x,Á,ì□Ú’±,đfSfVfG□[fVf†“,Á,«,Ü,¹,ñ□B

fŠf,□[fg fNf%ofCfAf“fg,ÆfT□[fo□[,ì—¼•ù,Á HST CEÝŠ·f,fff€,đŽg,Á,Ä,ç,é□è□±,Á,à□A,±,é,ç,lf,fff€,Á 14,400bps ,ì□Ú’±,đŠm—š,·,é,±,Æ,í,“Š©,β,Á,«,Ü,¹,ñ□BHST fvf□fgfRf<,í□A’S“ñ□d,ì 14,400bps fvf□fgfRf<,Á,í, ,è,Ü,¹,ñ□B,Á,Ü,è□A^ê•ùCEü,É“]’—,³,é,éff□[f^,ì’É□M’—“x,í 14,400bps ,É,È,è,Ü,·,ª□A<t•ùCEü,Ö,ìff□[f^,ì“]’—,ì,±,ê,æ,è, ,Á,Æ’á’—,É,È,è,Ü,·□B,±,ì,½,β□AfŠf,□[fg fAfNfZfX fT□[fxfX,í—¼•ùCEü,Ö,ìff□[f^,ì“]’—“x,ª“ ,ñ,Á, ,é,±,Æ,đ’O’ñ,É,μ,Ä,ç,é,ì,Á□AfXf<□[fVf†f,ª’á%º,μ,Ü,·□B

,·,x,Ä,ì 14400bps f,fff€

US Robotics ,ì 14400bps f,fff€,í,·,x,Ä□A□%Šú’—“x,đ 14,400bps ,Á,í,È, 19,200bps ,É□Ý’è,μ,È, ,è,î,È,è,Ü,¹,ñ□B,±,é,í□A^ê•“,ì Gateway 2000 fRf“fsf...□[f^,ÉfCf“fXfg□[f<,³,è,Ä,ç,é US Robotics Sportster f,fff€,É,à“—,Ä,í,Ü,è,Ü,·□B

US Robotics Sportster f,fff€,©,ç Hayes Optima 14.4 f,fff€,É□Ú’±,·,é,Æ□A,±,ì 2 ,Á,lf,fff€,í□Ú’± ,ìfSfVfG□[fVf†“,đ□s,±,±,Æ,ª,Á,«,Ü,¹,ñ□B Hayes Optima 14.4 f,fff€,©,ç US Robotics Sportster 14.4 f,fff€,É□Ú’±,μ,½□è□±,í□A□³□í,É□Ú’±,³,è,Ü,·□B

VenTel ,ì“Á□«

VenTel 14400

VenTel 14400 ftj@fbfNfX f,fff€,í□AfNf%ofCfAf“fg,ª%oñ□ü,ð□Ø*f,μ,Ä,à,»,ì,±,Æ,ðEÿ□o,Å,«,È,ç
,ì,Å□Af^fCfEfAfEfgŽžŠÔ,ªEo%oß,·,é,Ü,Á,í%oñ□ü,ª□è—L,³,è,½,Ü,Ü,Æ,È,è,Ü,·□B,±,ì,½,ß□A%oñ□ü,ª
—]•ª,ÈŽžŠÔ□è—L,³,è,Ä,ç,Ä,à,©,Ü,í,È,ç□è□±^ÈŠO,í□A,±,ì,f,fff€,ðfT□[fo□[f,fff€,Æ,μ,ÄŽg,í,È,ç,Ä,,¾,³,ç□B
fNf%ofCfAf“fg,Æ,μ,Ä,í□A□³í,É<@“\,μ,Ü,·□B

Ven-Tel 9600 Plus II

f,fff€^³□k,ª<□\$“I,Éfjf“,É,È,è,Ü,·□B

Western Datacom ,ì“Á□«

Worldcom V32bis

fNf%oofCfAf“fg f,fff€,Æ,μ,Ä,ì,ÝfTf|□[fg,³,ê,Ü,·□B

fP[fuf<,i-vCE

fŠf, [fg fAfNfZfX fT[frfX,É,íAfp[fuf<,É'í,μ,Ä'[-'ÉMfvfOf%of€,æ,è,àCEμ,μ,φ-vCE,ª, ,è,Ü,·BŽg—
p,μ,Ä,ç,éfvfŠfAf< fP[fuf<,ª Windows NT fnfCfp[f^ [f~fif<,Ä,í³í,É<@"\\,·,é,ì,É RAS ,Ä,í<@"\
,μ,È,çêþ,íAfp[fuf<,ªŽŸ,ì•\,ì,·, x,Ä,ìMþ,ð'É,·, ©,Ç,α, ©,ðSm" F,μ,Ä,,¾,¾,çB

fŠf, [fg fAfNfZfX fT[frfX,Ä,íARS-232C fP[fuf<,lŽŸ,łfsf",ªÚ'±,¾,è,Ä,ç,È,·,è,ì,È,è,Ü,¹,ñB

- Rx ŽóMff[f^
- Tx '—Mff[f^
- CTS '—M%oÄ
- RTS '—M—v<
- DTR '[-fCEffB
- DSR ff[f^ fZfbfg fCEffB
- DCD fLfffŠfACEŸo

CEx

ä,ì•\,ÉŽì,μ,½,·, x,Ä,łfsf",ªÚ'±,¾,è,Ä,ç,È,·,è,ì,È,è,Ü,¹,ñB7 ,Ä,łfsf",ì,α,ž,Ç,é,ªCEþ,·,Ä,àAfŠf, [fg
fAfNfZfX fT[frfX,í<@"\,μ,Ü,¹,ñBfsf",ª'«,è,È,ç, ©A,Ü,½,í<@"\,μ,È,·,è,ìAŠf, [fg fAfNfZfX
fT[frfX,É,æ,èfn[fhfEfffA fGf%o[,ªfCEf[fg,¾,è,Ü,·B

'½,ì ISA fRf"fsf... [f^ , ,æ,Ñ EISA fRf"fsf... [f^ ,É,íAZŸ,łfvfŠfAf< f[fg fRflfNf^ ,ì,ç, ,è, ©,ª•t,ç,Ä,ç
,Ü,·B

- 25 fsf" f[XCE^ "D-SUB" fRflfNf^
- 9 fsf" fl[XCE^fRflfNf^

,Ü,Æ,ñ,Ç,ìŠù»•i,łP[fuf<,ªŽg—p,Ä,«,Ü,·,ªA,·, x,Ä,ª³,μ,<@"\,·,é,í,·,Ä,í, ,è,Ü,¹,ñBfP[fuf<,É,æ,Ä,Ä,íA
u25 fsf" fP[fuf<vA u9 fsf" fP[fuf<vA, ,æ,ÑuNULL f,fff€.łP[fuf<v,ì•\,ÄŽì,μ,½fsf",ª,·, x,ÄÚ'±
,¾,è,Ä,ç,È,çêþ,ª, ,è,Ü,·BfP[fuf<,ðw"ü,·,é,Æ,«,íA—Ú"l,łP[fuf<,ª¾,ç,è,é,æ,α,ÉA%½,ª•K—
v, ©,ðffB[f%o[,É³Šm,ÉŽwŽì,μA,±,è,ç,ì•\,ìî•ñ,ð'ñ<Ÿ,μ,Ä,,¾,¾,çB

' f,fff€Mþ,ð" '—,μ,È,çêþ,ª, ,é,ì,ÄAf}fEfX fn[fhfEfffA,É•t,ç,Ä,ç,é 9-to-25-pin
fRf"fo[f^ ,íŽg,í,È,ç,Ä,,¾,¾,çB

Šö~A€-Ú

25 fsf" fP[fuf<

9 fsf" fP[fuf<

NULL f,fff€,łP[fuf<

25 fsf“ fP□lfuf<

ŽŸ,ì•\,ì,æ,α,É□AfVfŠfAf< f|□lfg fRflfNf^□ä,ì 1 ,©,ç 8 ,Ü,Å,lfsf“,í□Af,fff€ fRflfNf^□ä,ì,»è,¼,è,ì'í,É□Ú'±
 ,³,è,Ä,ç,Ü,·□B^è”É,É□AfŠf{f“ fP□lfuf<,ì□è□±,í 25 CEÄ,lfsf“,²,·,×,Ä•½□s,É□Ú'±,³,è,Ä,ç
 ,Ü,·□B,½,¼,μ□AfŠf{f“ fP□lfuf<,ðŽg,α,Æ□AfefCEfr□Af%ofWf|□A,“,æ,Ñfrfffl fffbfl,É□ásSQ,ð<y,Ú,·,±
 ,Æ,², ,è,Ü,·□B,±,ì-â`è,ð%øCE^ ,·,é,É,í□AfV□lf<fh,³,è,½ RS-232C fP□lfuf<,ðŽg,ç,Ü,·□B

25 fsf“ fvfŠfAf< f □lfg fRflfNf^	25 fsf“ f,fff€ fRflfNf^	□M□t
1	1	fOf%ofEf“fh
2	2	'—□Mff□lf^
3	3	Žó□Mff□lf^
4	4	'—□M—v<□
5	5	'—□M%oÄ
6	6	ff□lf^ fZfbfg fCEffB
7	7	□M□t—pfOf %ofEf“fh
8	8	fLfffŠfACEŸ□o
20	20	'[—fCEffB

9 fsf“ fP□lfuf<

ŽŸ,ì•\,ì□AfRf“fsf...□lf^,ì 9 fsf“ fVfŠfAf< f|□lfg fRflfNf^,ð□Af,fff€,ì 25 fsf“ fRflfNf^,É□Ú'±,·,é•û-
 @,ðŽ!,μ,Ä,ç,Ü,·□B,Ü,½□ASù□»•i,lfP□lfuf<,ð□w“ü,·,é□è□±,í□AZŸ,ì•\,ÉŽ!,·,·,×,Ä,lfsf“,²□Ú'±,³,è,Ä,ç,é,±
 ,Æ,ðŠm”F,μ,Ä,,¾,¾,ç□B

f,fff€,É,æ,Ä,Ä,í□Aff□lf^ fZfbfg fCEffB (DSR) □M□t,²fLfffŠfACEŸ□o (DCD) □M□t,É•” —□l,ÉCE<□±,³,è,Ä,ç
 ,Ü,·□B,Ü,½□A^è•”,ì 1200bps f,fff€,â 2400bps f,fff€,Ä,í□AffBfbfv fXfCfbf^,É,æ,è•W□€,Ä,±
 ,ì□Y`è,É,É,Ä,Ä,ç,Ü,·□B,μ,½,²,Ä,Ä□ACEÄ,Ñ□o,μ,ì listen 't,Éf,fff€,ì“dCE¹,²□Ø'f,³,è,é,Æ□A,Ü,©,lf,fff€,ì,æ,α,É
 DSR ,²•ì%o»,μ,È,ç,ì,Ä□AfŠf,□lfg fAfNfZfX fT□lfo□l,í□ó'Ö,ðCEŸ□o,Ä,«,Ü,¹,ñ□B

9 fsf“ fvfŠfAf< f □lfg fRflfNf^	25 fsf“ f,fff€ fRflfNf^	□M□t
1	8	fLfffŠfACEŸ□o
2	3	Žó□Mff□lf^
3	2	'—□Mff□lf^
4	20	'[—fCEffB
5	7	□M□t—pfOf %ofEf“fh
6	6	ff□lf^ fZfbfg fCEffB
7	4	'—□M—v<□

8	5	'—□M%oÅ
9	22	fŠf“fO fCf“fWfP□[fVf#f“ (fIfvVf#f“)

NULL f,fff€ ,İfP□[fuf<

NULL f,fff€ ,đŽg,Ä,Ä 2 'à,İfRf“fsf...□[f^ ,İŠÖ,Å¼□ÚfVfŠfAf<□Ú'±,đ□s,κ□ê□‡,İ□AfP□[fuf<,đŽŸ,İ•\,İ,æ,κ ,É□Ú'±,μ,È,˘,ê,Î,È,è,Û,¹,ñ□B

Šù□»•i,İ NULL f,fff€ fP□[fuf<,İ□³,μ,□Ú'±,³,ê,Ä,ç,È,ç,±,Æ,ª, ,è,Û,·□B NULL f,fff€ ,İfP□[fuf<,ª 25 fsf“ NULL f,fff€ ,İfP□[fuf<,İ•\,İ,æ,κ,É□Ú'±,³,ê,Ä,ç,é,±,Æ,đŠm“F,μ,Ä,,¾,¾,³,ç□B

9 fsf“ NULL f,fff€ ,İfP□[fuf<

fŠf,□[fg fzfXfg,İfVfŠfA f< f □[fg fRfIfNf^	CEÄ,Ñ□o,μ'κ ,İfVfXfef€ ,İfVfŠfAf< f □[fg fRfIfNf^	□M□t
3	2	'—□Mff□[f^
2	3	Žó□Mff□[f^
7	8	'—□M—v<□
8	7	'—□M%oÅ
6, 1	4	ff□[f^ fZfbfg fCEffB,ÆfLfffŠ fACEŸ□o
5	5	□M□t—pfOf %ofEf“fh
4	6, 1	'[—fCEffB

25 fsf“ NULL f,fff€ ,İfP□[fuf<

fŠf,□[fg fzfXfg,İfVfŠfA f< f □[fg fRfIfNf^	CEÄ,Ñ□o,μ'κ ,İfVfXfef€ ,İfVfŠfAf< f □[fg fRfIfNf^	□M□t
2	3	'—□Mff□[f^
3	2	Žó□Mff□[f^
4	5	'—□M—v<□
5	4	'—□M%oÅ
6, 8	20	ff□[f^ fZfbfg fCEffB,ÆfLfffŠ fACEŸ□o
7	7	□M□t—pfOf %ofEf“fh
20	6, 8	'[—fCEffB

f,fff€,lfXfNfŠfvg ftf@fCf<,lŠT—v

RAS ,Á,í□A"Ä—pf,fff€ fhf%oCfo (Unimodem) ,ð'É,μ,Äf,fff€,ðfTf|□[fg,·,é,æ,α,É,È,è,Û,μ,½□B□]—
^,lfVfXfef€,É,Ä,ç,Ä,à□A,±,±,Á<L□q,³,é,éf,fff€,ð'ø,«'±,«fTf|□[fg,μ,Û,·□B, ,ç,©,¶,βfCf"fxfg□[f<,³,é,Ä,ç
,éfTf|□[fg'í□ÚŠO,lf,fff€,ð□AŠf,□[fg fAfNfZfX fT□[fX,Á<@"\\,·,é,æ,α,É□□—,·,é,É,í□A,»,lf,fff€—
p,lfGf"fgfŠ,ð MODEM.INF ftf@fCf<,É'Ç%oÁ,μ,Ä,,¾,¾,¾,ç□B

Unimodem ,ì□Ú□×,É,Ä,ç,Ä,í□Aftp://ftp.microsoft.com/developr/drg/modem/modemdev.exe
,É, ,éfTf@fCf< Mdk.doc ,Æ Reg.doc ,ðŽQ□Æ,μ,Ä,,¾,¾,¾,ç□B

Modemdev.exe ,íŽ©œÈ"WSJCE^,ì^³□kftf@fCf<,Á,·□BŽÄ□s,·,é,Æ□AMdk.doc ,Æ Reg.doc ,ª"WŠJ,³,é,Û,·□B
'□ ,±,é,ç,lfTf@fCf<,í Windows 95 —p,lfhfLf..f□[fg,Ä,·,ª□AZŸ,ÉŽì,·—ì^æ^ÉŠO,ì"à—e,í□AWindows
NT ,É,à"—,Ä,í,Û,è,Û,·□B

- PnP (Plug and Play□Ffvf%oOfAf"fhfvfCEfC)
- %o¹□² INF □\ç
- VoiceView ,lfTf|□[fg
- fpf%oCf< f|□[fg f,fff€

MODEM.INF ftf@fCf<

MODEM.INF ftf@fCf<,É,í□ARAS ,ÁfTf|□[fg,³,é,é,·,×,Ä,lf,fff€□A, ",æ,Ń□AŠef,fff€,ª³□í,É" @□ì,·,é,½,β,É•K—
v,ÉfRf}f"fh•¶Žš—ñ,Æ%ož"š•¶Žš—ñ,ª□Y'è,³,é,Ä,ç,Û,·□BfŠf,□[fg fAfNfZfX,lfCf"fxfg□[f<Žž,Éf,fff€
,ð'ìð,·,é,Æ□AfZfbfgfAfbfv fv□fOf%oF€,É,æ,è□A'ìð,μ,½f,fff€,ªŽw'è,μ,½'É□Mf|
□[fg,ªŠÖ~A•t,·,ç,é,Û,·□BfŠf,□[fg fAfNfZfX,ì□Ú'±ft□[fefBfŠfefB,í MODEM.INF ,ð"Ç,ÝŽæ,è□AŠe'É□Mf|
□[fg,ÉŠÖ~A•t,·,ç,é,½f,fff€—p,lfRf}f"fh•¶Žš—ñ,ðŽæ,è□o,μ,Û,·□BMODEM.INF ,í□A\systemroot\
System32\RAS fffBfCEfNfgfŠ,É, ,è,Û,·□B

Ši-{□\ç

- MODEM.INF ftf@fCf<,í□AZš,ÉŽŸ,ì 2 ,Ä,ì"•ª,Á□□—,³,é,Ä,ç,Û,·□B
- fOf□□[fof<,É [Responses] fZfNfVf#f"□B□ufOf□□[fof<,É%ož"š,ì—á□v,ðŽQ□Æ,μ,Ä,,¾,¾,¾,ç□B
,±,lfZfNfVf#f",É,í□AŠeŽif,fff€,ª•Ö,·<α'É,ì%ož"š•¶Žš—ñ,ª<L□q,³,é,Ä,ç,Û,·□B
 - fTf|□[fg'í□Ú,lf,fff€,²,Æ,lfZfNfVf#f" (—á□F [AT&T Comsphere 3820].)□B□uf,fff€ fZfNfVf#f",ì—
á□v,ðŽQ□Æ,μ,Ä,,¾,¾,¾,ç□B
f,fff€ fZfNfVf#f",É,í□AZŸ,ì,æ,α,ÉfRf}f"fh•¶Žš—ñ,ª<L□q,³,é,Ä,ç,Û,·□B
 - □%oŠú%o»
 - f_fCf,,f<
 - %ož"š

fTf|□[fg,³,é,Ä,ç,È,çf,fff€,ðŽg,Á,Ä□Ú'±,·,é,É,í□AMODEM.INF ftf@fCf<,ð□C□³,·,é•K—
v,ª, ,è,Û,·□B□Ú□×,É,Ä,ç,Ä,í□A□uMODEM.INF ,ð□C□³,·,é□v,ðŽQ□Æ,μ,Ä,,¾,¾,¾,ç□B

ŠÖ~A□€—Ú

f,fff€,lŠg'£:<@"\\,ðŽg,α,½,β,ì—vCE□

MODEM.INF ,ì□\•¶

fof [fof<,È%ž“š,ì—á

ŽŸ,ÉŽ!,.,ì, [AMODEM.INF ftf@fCf<,ìfOf [fof<,È%ž“šfZfNfVf+f“,É<Lq,³,è,é“TÉ^“i,ÈfGf“fgfš,ì—á,Å,·B

[Responses]

OK=<cr><lf>**OK**<cr><lf>
OK=<hFF><cr><lf>**OK**<cr><lf>
LOOP=<cr><lf>RING<cr><lf>
LOOP=<cr><lf>RRING<cr><lf>
LOOP=<cr><lf>RINGING<cr><lf>
LOOP=<cr><lf>DIALING<cr><lf>
ERROR=<cr><lf>ERROR<cr><lf>
ERROR=<cr><lf>ABORTED<cr><lf>
ERROR_NO_CARRIER=<cr><lf>NO CARRIER<cr><lf>
ERROR_VOICE=<cr><lf>VOICE<cr><lf>
ERROR_NO_DIALTONE=<cr><lf>NO DIALTONE<cr><lf>
ERROR_NO_DIALTONE=<cr><lf>NO DIAL TONE<cr><lf>
ERROR_BUSY=<cr><lf>BUSY<cr><lf>
ERROR_NO_ANSWER=<cr><lf>NO ANSWER<cr><lf>
ERROR_NO_PROMPTTONE=<cr><lf>NO PROMPTTONE<cr><lf>
CONNECT_EC=\
<cr><lf>CARRIER <carrierbps><cr><lf><append>\
<cr><lf>PROTOCOL: V.42/LAPM<cr><lf>\
<cr><lf>COMPRESSION: V.42BIS<cr><lf>\
<cr><lf>CONNECT <connectbps><cr><lf>

LOOP

LOOP ,ÉŠÜ,Ü,ê,éî•ñ,í□AZŸ,É,Ù,©,ì%ž“š,â—,ç,ê,Ä,,é,Æ,ç,±,±,Æ,¾,¯,Å,·□BfŠf,□[fg fAfNfZfX,í□A,»,ì
%ž“š,â—,ç,ê,Ä,,é,Ü,Å,í□AZŸ,ì“@□ì,É“ü,ç,,É‘Ò,¿,Ü,·□BLOOP ,Ü,½,í LOOP_ ,ÅŽn,Ü,é
%ž“šfL□[f□□[fh,í,·,×,Ä□A,±,ê,Æ“¯,¶,æ,±,É<@“\,μ,Ü,·□B

ERROR

f,fff€,ÉfRf}f“fh,â—M,³,ê,½¼CEă,ÉAf,fff€,âfGf%oo[,ð•Ô,µ,½,±,Æ,ðŽ!,µ,Û,·B,±,ì%ž“š,ÍA,½,ç,Ä,ç
,ìêê#Af,fff€,É—M,³,ê,½fRf}f“fh•ŕŽš—ñ,â³,µ,,È,ç,±,Æ,ð^Ó-ì,µ,Û,·BWindows NT
fnfCfp[f^f~fif<,ðŽg,Á,Äf,fff€,ðfefXfg,µA,Ç,ìfRf}f“fh,âfGf%oo[,ìCE
^^ö,É,È,Á,½,©,ð²,x,ÄA³,µ,çfRf}f“fh•ŕŽš—ñ,ðŠm”F,µ,Ä,,¾,¾,çBfefXfg•û-@,É,Á,ç,Ä,ÍAuf,fff€
ðfefXfg,:é∇,ðŽQÆ,µ,Ä,,¾,¾,çB
,Û,©,ìfRf}f“fh,ð•t,~, ,ÉuAT∇v,Æ,ç,xfRf}f“fh,¾,~“ü—Í,µ,Ä,,¾,¾,çB,±,ìCE<%oÊfGf
%oo[,â•Ô,³,ê,éêê#,ÍAf,fff€,ìfn[fhfEfFfA,É-â’è,â, ,é,ÆŽv,í,ê,Û,·Bf,fff€,ì“dCE¹,ð∅,Á,Ä,©,ç-ñ 20
•bŠÔ’Ò,ìA“dCE¹,ð“ü,ê’¼,µ,Ä-â’è,â%ooðCE^,³,ê,é,©,Ç,æ,©,ð²,x,Ä,,¾,¾,çB,±,ê,Ä-â’è,â
%ooðCE^,³,ê,É,çêê#,ÍAf,fff€,ì»‘çCE³,É-â,çê#,í¹,Ä,,¾,¾,çB

CONNECT

□Ú±,ªŠm—š,³,ê,½,±,Æ,ðŽ|,μ,Ü,·□B

OK

f, fff€, @fRf}f“fh, đŽóM, μA³í, É^—, μ, ½, ±, Æ, đŽ!, μ, Û, ·B

CONNECT_EC

f,fff€,lfGf%□□\$€ä<@"\,Ü,½,í^³□k<@"\,ªfjf“,É,È,Á,½□ó‘Ô,Å□Ú‘±,³,ê,½,±,Æ,ðŽ¡,μ,Ü,·□B

f,fff€ fzjNfvfjf“,i—á

ŽŸ,ÉŽ!,.,ì,í□AMODEM.INF ftj@fCf<,ì“TCE^“ì,Èf,fff€ fzjNfvfjf“,i—á,Á,·□B

```
[AT&T Comsphere 3820]
<speaker_on>=M1
<speaker_off>=M0
<hwflowcontrol_on>=\\Q3
<hwflowcontrol_off>=\\Q0
<compression_on>=%C1"H3
<compression_off>=%C0"H0
<protocol_on>=\\N5
<protocol_off>=\\N0
CALLBACKTIME=10
DEFAULTTOFF=compression
MAXCARRIERBPS=14400
MAXCONNECTBPS=38400
COMMAND_INIT=AT&F&C1&D2 V1 X7 S0=0 S2=128 S7=55<cr>
COMMAND_INIT=AT<hwflowcontrol><compression><protocol><speaker><cr>
COMMAND_LISTEN=ATS0=1<cr>
COMMAND_DIAL=ATDT<phonenumber><cr>
```

CALLBACKTIME

fT[fO[,afNf%ofCfAf"fg,ÉfR[f·fjofbfN,·,é,Ü,Å,É'Ò<@,·,é•b",ðŽw'è,μ,Û,·B,±,ìŽžŠÔ,íAfNf
%ofCfAf"fg,lf,fff€,afŠfZfbfg,Å,«,é,æ,α,É,·,é,½,ß,ÉY,·,é'x%o,,ŽžŠÔ,Å,·BÅ%o,í 10 •b,ðŽw'è,μA-
â'è,â, ,é,î'l,ð'â,â,μ,Ä,,¾,¾,çB

DEFAULTOFF

fjf", ©fift,ÉŸ'è,Å,«,éf}fNf□,ì,κ,ζ□AŠù'è,ìŸ'è,Åfift,É,μ,Ä,"}f}fNf□,ð—ñ<" ,μ,ÄŽw'è,μ,Ü,·□B,±,±
,ÉŽw'è,μ,½f}fNf□,í□ARasphone.exe ,Åfjf",É•ï□X,³,ê,È,†ÆÀ,è□Afift,ì,Ü,Ü,É,È,è,Ü,·□B

MAXCARRIERBPS

fNf%oCfAf"fg,lf,fff€,ÆfŠf,[]fg fAfNfZfX fT[]fo[],lf,fff€,³ff[]f^,ðCEðŠ.,,é,Æ,«,ìÅ'â'¬"x ("d~b%ñü,Å,ì
bps 'P^Ê,ì'ÊM'¬"x) ,ðŽw'è,μ,Û,·B,±,ì'¬"x,É,íAí,É MAXCONNECTBPS ,ÉŽw'è,μ,½'l^È
%º,ì'l,ðŽw'è,μ,Ä,,¾,¾,¾,¾B

MAXCONNECTBPS

f,fff€,©,çfRf"fsf...[]f^,Ö'—[]M,·,é,Æ,«,ì[]Å'å'—"x (DCE ,©,ç DTE ,Ö,ì bps 'P^Ê,Å,ì'Ê[]M'—"x)
,đŽw'è,μ,Ü,·[]B,±,ì'l,É,í[]A,»,ìf,fff€,ÅfTf|[]fg,Å,«,é[]Å'å,ìfVfŠfAf< f|[]fg'Ê[]M'—"x,đ[]Ý'è,μ,Ä,³/4,³,ç[]B

speaker

f,fff€,jfxfs□[fj□[,ðfjf“,Ü,½,íift,É,μ,Ü,·□B

protocol

fGf%°[]\$Eä<@"\,øf|f",Ü,½,Í|ft,É,μ,Ü,·B

compression

f,fff€,i^3□k<@"\,ðflf",Ü,½,Íflft,É,μ,Ü,·□B

hwflowcontrol

COM f|[]fg,Æj,fff€,Æ,ìŠÔ,Åfn[]fhfEjFfA ftf[][]\$CEä,ðŽg,¸,©,Ç,¸,©,ð[]Af,fff€,ÉŽwŽ!,μ,Û,·[]B

cr

fLfffŠfbfW fŠf^[f“,ð’}“ü,μ,Ü,·B

If

f%ofCf“ ftfB[fh,δ’}“ü,μ,Ü,·B

match

fffofCfX, ©, ç, ì%ž"š, ì't, É□A^ø—p•,, Å^í, ñ, ¾•¶Žš—ñ, æ©, Â, ©, é, Æ□A^ê'v, μ, ½, ±
, Æ, ð•ñ□□, μ, Ü, ·□B, ½, Æ, ¡, î□A<match>"Smith" , ÆŽw'è, ·, é, Æ□A"Jane Smith" , â "John Smith III" , È, Ç, ì
%ž"š, ðŽó, -Žæ, Á, ½, Æ, «, É□A%ž"š, æ^ê'v, μ, ½, Æ©, È, ³, ê, Ü, ·□B

?

f[]fCf<fhfj[]fh•¶žš,đ'}“ü,μ,Ü,·[]B,½,Æ,¡,Î[]ACO<?><?>2 ,Í COOL2 ,â COAT2 ,Æ^è'v,μ,Ü,·,ª[]ACOOOL3
,Æ,Í^è'v,μ,Ü,¹,ñ[]B

phonenummer

f_fCf,,f<fAfbfv flfbfgf□□[fN,ì“d~b’ ,É“ü—í,³,ê,Ä,ç,é“d~b”Ô□†,öf_fCf,,f<,μ,Ü,·□B

carrierbps

fNf%oCfAf"fg,lf,fff€,ÆfŠf,□[fg fAfNfZfX fT□[fo□[,lf,fff€,iŠÔ,iff□[f^"J'—'—"x ("d~b%oñ□ü,Å,i bps
'P^Ê,i'Ê□M'—"x)□B

connectbps

f,fff€,©,çfRf“fsf...[]f^,Ö’—[]M,·,é,Æ,«,ì’-“x (DCE ,©,ç DTE ,Ö,ì bps ‘P^Ê,Å,ì’Ê[]M’-“x)[]B

append

í•ň,đ•i” ,lfZfOf“fg,É•š,,μAf,fff€,©,ç’—,ç,ê,Ä,«,½fZfOf“fg,íA1 “x,É 1 ,Ä,,ÄžóM,³,é,Ü,·BfNf
%ofCfAf“fg,íAfZfOf“fgšÔ,É’x%o,,žžšÔ,š”¶,·,é,±,Æ,đ’z’è,μA,·,x,Ä,ìí•ň,đžóM,·,é,Ü,Å’Ò,¿,Ü,·B

ignore

f}fNf□, ©,ç,ì%ž“š,ìŽc,è,ì•”•ª,đ-³Ž<,μ,Û,·□B,½,Æ,ì,î□A<cr><lf>CONNECT<ignore>
,Æ<L□q,·,é,Æ□A"crIfCONNECTV-1.1" ,Æ "crIfCONNECTV-2.3" ,Æ,ç,æ%ž“š,đ“˘,¶,à,ì,Æ,μ,Ä“Ç,Ý□ž,Ý,Û,·□B

hXX (XX ,í 16 □i□”)

•ŕŽš—ň,É 16 □i□”,Å□”’l,đ’}“ü,Å,«,Ü,·□Bfjf<•ŕŽš,í□A<h00> ,É,È,è,Ü,·□B

diagnostics

X.25 f|fbfgf[]fN,ð%oi,μ,½□Ú'±,ÉŽ, "s,·,é,Æ□APAD ,©,ç□f'f□î•ñ,a•Ô,³,ê,Û,·□B**diagnostics** f})fNf□,í□A-
â'è,ðŽ~•Ê,μ,â,·,ç,æ,κ,É□A,±,ì□î•ñ,ðŽù□W,μ,Ä%œ-Ê,É•\Ž!,μ,Û,·□B,±,ì-\-ñÆê,í□APAD.INF
ftf@fCf<,ÅŽg,í,ê,Û,·□B

facilities

'Ê~b—¿<à,ð'...□M□æ,ª•%oS,·,é,æ,κ,ÉŽw'è,·,é /R ,È,Ç,lfpf%of□□[f^,ðŽw'è,μ,Û,·□B

x25address

fŠf.[]fg fAfNfZfX fT[]fo[][,đĀÄ,Ñ[]o.,½,ß,ì X.121 fAfhfĀfX (X.25 ,Å[]A'Ê[]í,ì“d~b”Ô[]t,É'î%ž,.,é[]î•ň)
,đŽw'è,μ,Û,·[]B

x25pad

Žg—p,·,é X.25 Packet Assembler/Disassembler (PAD) ,ìŽí—p,đŽw'è,μ,Ü,·□Bf_fCf,,f<fAfbfv PAD
,ì□ê□†,í□AX.25 ,ìfvf□fofCf_—¼,Æ,È,è,Ü,·□B

userdata

X.25 fzfXfg fRf"fsf...[]f^, ©,ç—v□,³,ê,é,»,ì¼,ìÚ'±□î•ñ,ðŽw'è,μ,Û,·□B

message

f,fff€,È,Ç,ìfffofCfX,©,çŽó□M,μ,½-¢□^—□□î•ñ□BfGf%□□l,â"□¶,μ,½,Æ,«,É□A,±,ì□î•ñ,â%□□æ-Ê,É•\Ž! ,³,ê□A-â'è,ð%□□ð□E^ ,·,é,½,B,ìŽè,â,©,è,Æ,È,è,Ü,·□B,±,ì—\—ñ□Eê,Í□A.INI ftf@fCf<,Å,ÍŽg,í,è,Ü,¹,ñ□B

MODEM.INF ,đC³,·,é

fšf,[]fg fAfNfZfX fT[]frfX,ÁfTf[]fg,³,è,Ä,ç,È,çf,fff€,đŽg,Á,ÄÚ±,·,é,É,í[]AMODEM.INF
ftf@fCf<,đC³,μ,È,·,è,î,È,è,Û,¹,ñ[]B

MODEM.INF ,đC³,·,é,É,í

1 Šù'¶,ì MODEM.INF ftf@fCf<,đfofbfNfAfbfv,μ,Û,·[]B

2 Šù'¶,ìfZfNfVfjff“,đftf@fCf<,ì[]AÉä,ÉfRfs[],μ[]AZÿ,É[]AfRfs[],μ,½fZfNfVfjff“,ìfZfNfVfjff“ fwfbf_[][,đf,fff€
,ì-¼'°O,É·ì[]X,μ,Û,·[]B

fZfNfVfjff“ fwfbf_[][,í 31 ·¶Žš^È“à,É,μ,Ä,,¾,¾,ç[]B,±
,ìfRfs[],.đ.Ö[]W,μ,Ä[]A[]V,μ,çfGf“fgfš,đ[]i[]-,μ,Û,·[]B

3 Žÿ,ì·¶Žš—ñ,đ“ü—í,μ,Û,·[]B

- []%Šú%»·¶Žš—ñ
- f_fCf,,f<·¶Žš—ñ
- %ž“š·¶Žš—ñ
- []%Šú%»·¶Žš—ñ,ì[]AZÿ,ì—v[]E[],đ-ž,½,¾,È,·,è,î,È,è,Û,¹,ñ[]B
- []H[]ê[]o%×Žž,ì[]Y'è,đfšfR[][f<,μ,Û,·[]B
- fLfffšfACEÿ[]o (DCD) ,ì%ž“š (fLfffšfA,đCEÿ[]o,·,é,Æ HIGH ,É,È,è,Û,·) ,đ'ç[]Ö,μ,Û,·[]B
- '[-fçfffB (DTR) ,ª ON (HIGH) ,©,ç OFF (LOW) ,É·í,í,Á,½,ç[]A%ň[]ü,đ[]Ø'f,μ[]AZ©“®%ž“š<@“\
,đ-³CEø,É,μ,Û,·[]B
- CE<%ÉfR[][fh,đ·Ö,μ,Û,·[]B
- []Ú[]×fR[][fh,đ·Ö,μ,Û,·[]B
- fRf}f“fh f,[][fh,Á,ì·¶ŽšfGfR[][,đ—LCEø,É,μ,Û,·[]B
- -ñ 55 ·bšÖfLfffšfA,đ'Ö,¿,Û,·[]B
- +++ fGfXfP[][fv fV[][fPf“fX,đ-³CEø,É,μ,Û,·[]B

f_fCf,,f<·¶Žš—ñ,ì[]AZÿ,ì—v[]E[],đ-ž,½,¾,È,·,è,î,È,è,Û,¹,ñ[]B
%ň[]ü,đflft ftfbfN,É,μ,Äf_fCf,,f<,μ,Û,·[]B

- %ž“š·¶Žš—ñ,ì[]AZÿ,ì—v[]E[],đ-ž,½,¾,È,·,è,î,È,è,Û,¹,ñ[]B
- CEÄ,Ñ[]o,μ%¹,ª 1 %ň,É,Á,½CEä,É%ž“š,μ,Û,·[]B

fRf}f“fh·¶Žš—ñ,ì[]Ú[]×,É,Á,ç,Ä,ì[]A[]uf,fff€ fRf}f“fh[]v,đŽQ[]Æ,μ,Ä,,¾,¾,ç[]B

4 f,fff€,ìf}fj...fAf<,Ä[]A,»,ìf,fff€,ì%ž“š (CE<%É·¶Žš—ñ) ,ªŠù,É MODEM.INF ,ìfOf[][]fof<
fZfNfVfjff“,ÉŠÜ,Û,è,Ä,ç,é,©,ç,¤,©,đ'²,×,Û,·[]BŠÜ,Û,è,Ä,ç,é[]ê[]±,ì[]A,»,ì%ž“š,É·ì[]X,đ%Á,ì,é·K—v,í, ,
è,Û,¹,ñ[]BŠÜ,Û,è,Ä,ç,É,ç[]ê[]±,ì[]Af,fff€ fZfNfVfjff“,É,»,ìf,fff€[]ê—p,ì%ž“š,đ[]i[]-,Á,<,Û,·[]B
%ž“š,ì[]Ú[]×,É,Á,ç,Ä,ì[]u%ž“š[]v,đŽQ[]Æ,μ,Ä,,¾,¾,ç[]B

'[] —Šú,μ,È,çCE<%É,đ“đ,·,é,½,ß,É[]AMODEM.INF ,ìfOf[][]fof<,È%ž“šfZfNfVfjff“,É%ž“š,đ'ç
%Á,μ,½,è[]A,±,ìfZfNfVfjff“,©,ç%ž“š,đ[]í[]œ,μ,½,è,μ,È,ç,Ä,,¾,¾,ç[]B

ŠÖ~A[]€-Û

f,fff€,ìšg'£<@“\,đŽg,¤,½,ß,ì—v[]E[]

f,fff€,ìŠg'£<@"\,ðŽg,¼,½,B,ì—vCE

fTf|[]fg,³,è,Ä,ç,È,çf,fff€—p,ìf,fff€ fZfNfVf#f“,ðV,μ,[]□—,μ,Ä,ç,é[]ê[]#,í[]AZŽY,ì—vCE,ðY'è,μ,Ä[]Af,fff€ ,ìŠg'£<@"\,ð—LCEø,É,μ,Ä,,¾,³,ç[]B

- fn[][fhfEfFfA (CTS/RTS) ftf[][]\$CEäflf“
- fn[][fhfEfFfA (CTS/RTS) ftf[][]\$CEäflft
- fGf%[][]\$CEäfvf[]fgfRf< flf“

Ž©“@“l,É[]AfIJSfVfG[]fVf#f“,É[]—CE÷,μ,½[]Å,à[]M—Š[]«,ì[],,çfvf[]fgfRf<,²l'ð,³,è,Ü,·[]B,Ü,,[]AV.42 (LAP-M) ,©,çfIJSfVfG[]fVf#f“,²ŠJŽn,³,è[]A[]#,É[]AMNP4[]AfGf%[][]\$CEà,È,μ,ÆfCEfxf<,²%°°,°,ç,è,Ü,·[]BŽg—p,μ,Ä,ç,éf,fff€,³ V.42 ,ðTf|[]fg,μ,Ä,ç,È,ç[]ê[]#,í[]AfIJSfVfG[]fVf#f“,í[]AMNP4 ,©,çŠJŽn,³,è,Ü,·[]B

- fGf%[][]\$CEäfvf[]fgfRf< flft
- ^³[]kflf“

Ž©“@“l,É[]AfIJSfVfG[]fVf#f“,É[]—CE÷,μ,½[]Å,à[]CEø—l,ì,æ,çfvf[]fgfRf<,²l'ð,³,è,Ü,·[]B,Ü,,[]AV.42bis ,©,çfIJSfVfG[]fVf#f“,²ŠJŽn,³,è[]A[]#,É[]AMNP5[]A^³[]k,È,μ,ÆfCEfxf<,²%°°,°,ç,è,Ü,·[]BŽg—p,μ,Ä,ç,éf,fff€,³ V.42bis ,ðTf|[]fg,μ,Ä,ç,È,ç[]ê[]#,í[]AfIJSfVfG[]fVf#f“,í[]AMNP5 ,©,çŠJŽn,³,è,Ü,·[]B

- ^³[]kflft

ŠÖ~A[]€-Ú

f,fff€,ì<@"\,ðY'è,·,é

MODEM.INF ,ì\•¶

MODEM.INF ftf@fCf<,ì“TCE^“I,Èf,fff€ fGf“fgfŠ,É,íAŽŸ,ì\□¬—v‘f,ŠÜ,Ü,è,Ü,·□B□Å□%o,ì 4 ,Â,Í□A,±,±,ÉŽ!,·,Æ,“,è,ì□#□~ ,Å<L□q,μ,Ü,·□BfRf□f“fg□s,Í,Ç,±,É“ü,è,Ä,à,©,Ü,ç,Ü,¹,ñ□B

- fZfNfVf#f“ fwfbf_□I
- □\□¬fpf%of□□[f^
- ‘â“üf}fNf□‘è<
- fRf}f“fh
- fRf□f“fg□s

ŠÖ~A□€-Ú

%oŽ“Š

□s,ìCEp‘±

fGfCfŠfAfX,öŠ,,è“- ,Ä,é

fZfNfVfjf“ fwfbf_[]

,±,ìfZfNfVfjf“,ª“K—p,³,ê,é“Á’è,ìfffofCfX,ðŽ-•Ê,μ,Û,·[]B’Êí[]AMODEM.INF ,ìfZfNfVfjf“
fwfbf_[][,É,í[]Af,fff€,ì[]»’çCE³-¼,Æ<@Ží-¼,ª<L[]q,³,ê,Û,·[]BfZfNfVfjf“ fwfbf_[][,í[]AŠp,©,Á,±,Å^í,Û,ê,½ 32
•¶Žš^È“à,ì•¶Žš—ñ,Å, ,è[]AŠefZfNfVfjf“,ì 1 []s-Ú,É’u,©,ê,Û,·[]B,½,Æ,¡,î[]A[AT&T Comsphere] ,ì,æ,ª
,É,È,è,Û,·[]B

□\□-fpf%of□□[f^

fŠf,□[fg fAfNfZfX,í□A□\□-fpf%of□□[f^,đŽg,Á,Äf,fff€,đ'€□ì,μ,Ü,·□B□\□-fpf
%of□□[f^,ì□Ž®,í□AZŽŸ,ì,Æ,¨,è,Å,·□B

parameter_name=value_string

ŽŸ,É—á,đŽì,μ,Ü,·□B

MAXCARRIERBPS=9600

CALLBACKTIME=8

'ã"űf}fNf'è<`

'ã"űf}fNf,Æ,ÍAfrf}f"fh•¶Žš—ñ,ì't,ÅAŽÀÛ,ì'l,É'uŠ·³,ê,évfCE[fXfzf<f_Å,·Bf}fNf,ÍAZŽÿ,ì<K'¥,É],
,ç,Û,·B

- MODEM.INF ftf@fCf<,ÅAf}fNf,ÍÅ%,ìfrf}f"fh,ì'O,É,È,~,ê,Î,È,è,Û,¹ñB,Û,½A^è"Ê,ÉA□□~fpf
%of□□[f^,ìCEã,É<L□q,μ,Û,·B
- f}fNf-¼,ÍA·s"™ □t (< >),Å^Í,Û,È,~,ê,Î,È,è,Û,¹ñB

Žÿ,É—á,ðŽ!,μ,Û,·B

<reset>=&F

<speaker_on>=M1

<speaker_off>=M0

□Ú□x,É,Â,ç,Ä,ÍA□u'ã"űf}fNf□□v,ðŽQ□Æ,μ,Ä,,¾,³,ç□B

fRf}f“fh

fRf}f“fh,Æ,í□Af,fff€,É‘—□M,³,ê,é•¶Žš—ň,Å,·□B,±,ì•¶Žš—ň,É,í□Af}fNf□,ð“ü,ê,é,±
,Æ,²,Å,«,Ü,·□BfRf}f“fh•¶Žš—ň,ì‘Ž®,íŽŸ,ì,Æ,“,è,Å,·□B

command_keyword=value_string

□Ú□x,É,Å,ç,Ä,í□A□uf,fff€ fRf}f“fh□v,ðŽQ□Æ,μ,Ä,,³/₄,³,ç□B

frf“fgs

frf“fgs,íZf~frf“ (;) ,ÅŽn,Ü,èAftf@fCf<“à,ì”C^Ó,ì%ÓŠ,É’u,,±
,Æ,ª,Å,«,Ü,·Bfrf“fgs,É,íA.INF ftf@fCf<,ð•ÚŽç,·,éft[fU[,É,Æ,Á,Äd—v,Èî•ñ,ªŠÜ,Ü,ê,Ä,ç
,Ü,·BŽŸ,É—á,ðŽ!,μ,Ü,·B

- ; Explanation of modem commands
- ; &F Reset modem to factory default settings
- ; &C1 DCD tracks presence of modem carrier
- ; &D2 Hangup & disable autoanswer when DTR goes from ON TO OFF

'ã"üf}fNf

ŽŸ,ì·\,ÉŽì,·,æ,æ,ÉA'ã"üf}fNf,í 2 Ží—p, ,è,Ü,·B

f}fNf,ílfXfg,Á,«,Ü,¹,ñB~A'±,·,é 2 ,Á,ìQ·s"™Qt,í 1 ,Á,ìQ·s"™Qt,Æ,μ,Ä%øŽŽ³,éA~A'±,·,é 2 ,Á,ì%E·s"™Qt,í 1 ,Á,ì%E·s"™Qt,Æ,μ,Ä%øŽŽ³,é,Ü,·B,±,ì·ù-@,Á·s"™Qt,ðŽw'è,·,é,±,Æ,É,æ,èA·K—v,É%øž,¶,ÄfRf}f"fh·¶Žš—ñ,ÉQ·s"™Qt,Æ%øE·s"™Qt,ðŽg—p,Á,«,Ü,·B

f}fNf,ìŽí	Q'Ž®
—p	
'PQ€	<macro_name>=value_string
"ñQ€	<macro_name_ON>=value_string
	<macro_name_OFF>=value_string

"ñQ€f}fNf

fRf}f"fh AT<reset><cr> ,íAAT&F<cr> ,Æ,μ,Ä'—M,³,é,Ü,·B"ñQ€f}fNf,ívfC[fXfzf<f_,íAft[fU[,©,ç,ìŽwŽì,É] ,Á,Ä'uš,³,é,Ü,·B,½,Æ,ì,íAft[fU[,¶Xfs[f] ,ð—³CEø,É,μ,½Qè¶AfRf}f"fh AT<speaker><cr> ,í ATM0<cr> ,Æ,μ,Ä'—M,³,é,Ü,·Bft[fU[,¶Xfs[f] ,ð—LCEø,É,μ,½Qè¶AfRf}f"fh AT<speaker><cr> ,í ATM1<cr> ,Æ,μ,Ä'—M,³,é,Ü,·B

speaker A**protocol** A**compression** A**hwflowcontrol** ,È,Ç,ì"ñQ€f}fNf,íAŽŸ,ì,æ,æ,É'è<` ,μ,Ü,·B

<speaker_on>=M1
<speaker_off>=M0

'l,Æ,μ,ÄŽg,æ,Æ,«,íAŽŸ,ì—á,ì,æ,æ,ÉŽg,ç,Ü,·B

COMMAND_INIT=AT<speaker><cr>

%øž"š,Á,ìf}fNf

^ê·",ì%øž"š,É,àf}fNf,ðŽg—p,Á,«,Ü,·B%øž"š·¶Žš—ñ"à,ì,Ü,Æ,ñ,Ç,ìf}fNf,íAfRf}f"fh"à,ìf}fNf,Æ" ,¶,æ,æ ,É"©i,μ,Ü,·B,½,¾,μA**carrierbps** A**x25address** ,È,Ç,ì^ê·",ìf}fNf,íA'ÉM'—"x,È,Ç,ìî·ñ,ðffofCfX,ì%øž"š·¶Žš—ñ,©,çŽæ"¾,μ,Ü,·B

fŠf,ífg fAfNzfX ftífrfX,Á,íA%øž"š·¶Žš—ñ,ì't,Á **match** A? A**append** A**hXX** A**ignore** ,È,Ç,ðŽg,Á,Äf,ff€E,Ü,½,í,»,ì¼,íffofCfX,©,ç,ì%øž"š,ð" FŽ ,Á,«,Ü,·B

—\—ñCEè

ŽŸ,ì^è—,ìf}fNf,í—\—ñCEè,Á,·B[V,μ,çf}fNf,ðìQ·,·,é,Æ,«,ÉA,±,é,ç,ìf}fNf,í MODEM.INF ,É'è<` ,Á,«,Ü,¹,ñB—\—ñCEè,Á,íA'ã·¶Žš,ÆQ·¶Žš,æ<æ·É,³,é,Ü,¹,ñB

- carrierbps
- connectbps
- message
- phonenummer
- cr
- lf
- match
- ?
- append
- ignore

- hXX

PAD.INF ftj@fCf<,Å,í□AŽŸ,ì—\-ñĀĕĕ,ªŽg,í,ĕ,Ä,č,Ü,·□B

- diagnostics
- facilities
- x25address
- x25pad
- userdata

'□ —\-ñĀĕĕ,đf}fNf□-¼,Æ,μ,Ä'è<` ,μ,½□ĕ□‡,ìŤf,□[fg fAfnfZfX f\ftfgfEfFfA,ì“®□ì,í—\ª,Ä,«,Ü,¹,ñ□B

f,fff€ fRf}f“fh

—p^Ó,³,ê,Ä,ç,éRf}f“fh fL□[f□□[fh (fRf}f“fh,ìŽí—p) ,í□AZŽÿ,ì,Æ,“,è,Å,·□B

- COMMAND_INIT
- COMMAND_DIAL
- COMMAND_LISTEN

“Á'è,ìŽí—p,ìfRf}f“fh,í□AMODEM.INF ftf@fCf<,É<L□q,³,ê,Ä,ç,é□#□~,É□],Á,ÄŽÀ□s,³,ê,Ü,·□BŽÿ,ì MODEM.INF
,ì—á,ÉŽ,³,ê,é,æ,α,É□A^è”É,É 1 ,Á,ìŽí—p,ìf,fff€,ìfRf}f“fh,í□A,Ü,Æ,ß,Ä<L□q,³,ê,Ü,·□B

```
COMMAND_INIT=AT&F&C1&D2 V1 S0=0 S2=128 S7=55 W0 \  
S95=44<speaker><protocol><compression><hwflowcontrol><cr>  
COMMAND_LISTEN=ATS0=1<cr>  
COMMAND_DIAL=ATDT<phonenumber><cr>
```

•i□”,ìfRf}f“fh•ŕŽš—ň

,Ü,Æ,ň,Ç,ìf,fff€,Á,í -ň 50 •ŕŽš,Ü,Á,ì•ŕŽš—ň,μ,©Žg—p,Á,«,É,ç,½,ß□AfŠf,□[fg

fAfNfZfX,Á,í•i□”,ìfRf}f“fh•ŕŽš—ň,afTf|□[fg,³,ê,Ä,ç

,Ü,·□B,»,ì,½,ß□AfRf}f“fh,af',·,·,·,é□è□#,í□AfRf}f“fh,ð•aŠ,,,μ□Af,fff€,ÁŽg—p%oÁ”\,É•ŕŽš—ň,É,·,é,±
,Æ,ª,Á,«,Ü,·□B

•i□”,ìfRf}f“fh•ŕŽš—ň,ðŽg,α,Æ□A'O□o,ì—á,ì□Á□%o,ì□s,ð□AZŽÿ,ì,æ,α,É□',«Š,!,é,±,Æ,ª,Á,«,Ü,·□B

```
COMMAND_INIT=AT&F&C1&D2 V1 S0=0 S2=128 S7=55 W0 S95=44<cr>  
COMMAND_INIT=AT<speaker><protocol><compression><hwflowcontrol><cr>
```

fRf}f“fh•ŕŽš—ň,ð•aŠ,,,·,é□è□#,í□AZŽÿ,ì“_É'□^Ó,μ,Ä,,¾,³,ç□B

- •ŕŽš—ňŽ©'í,ª 1 ,Á,ìfRf}f“fh,É,É,è,Ü,·□B
- AT ,ÁŽn,Ü,è□AfLfffŠfbfW fŠf^□[f“ (<cr>) ,Á□i,í,è,Ü,·□B
- %oŽ“š,ðŽó, Žæ,Á,Ä,©,çŽÿ,ì•ŕŽš—ň,É□i,Ý,Ü,·□B

COMMAND_INIT

f,fff€,đ□%Šú%»μ,Û,·□B

COMMAND_DIAL

"d~b"Ô□†,öf_fCf,,f<,μ□A□Ú'±,μ,Û,·□B

COMMAND_LISTEN

f,fff€,đŽ©“®%ž“šf,[]fh,É[]Ý’è,μ,Û,·[]Bf,fff€,đCEÄ,Ň[]o,μ%°¹,ª-Â,Á,½,ç%°ž“š,·,é,æ,x
,É[]Ý’è,·,éfR[]fh,É,Â,ç,Ä,Í[]AŠef,fff€,[]f}fjf...fAf<,đŽQ[]Æ,μ,Ä,,¾,³,ç[]B

%ož“š

fRf}f“fh%ož“šfZfbfg,íA1 CEÂ,}fRf}f“fh,ÆA,»è,É±,ff[A^Èä,}ož“š,©,ç[A-,³,è,Ü,·B
%ož“š,íAfffCfX,©,çŽóM,·,é,Æ—\z,³,è,é•qŽš—ñ,Å[Af}fNf},ðŠÜ,ß,é,±,Æ,ª,Å,«,Ü,·B
%ož“š,íŽ@,íŽÿ,ì,Æ,·,è,Å,·B

keyword=value_string

MODEM.INF ftf@fCf<,É,íAZÿ,ì 2 Ží—p,}ož“š,ªŠÜ,Ü,è,Å,ç,Ü,·B

%ož“š,ìŽí—P	<LqêŠ
fOf[fof<	[Responses] fZfNfVf#““à
fvf%ofCfx[fg	%ož“š,ðq[A-,·,é,Æ —\z,³,è,éRf}f“fh f %ofCf“,ì¼AĚãA,“,æ,ÑŽÿ, }fRf}f“fh f%ofCf“,ìO

fOf[fof<,È%ož“š

,Ü,Æ,ñ,ç,lf,fff€,ÉŽg,í,è,é%ož“š,íAMODEM.INF ,}fOf[fof<,È [Responses] fZfNfVf#“ ,É“ü,Á,Ä,ç
,Ü,·BufOf[fof<,È%ož“š,ì—áv,É—á,ª, ,é,ì,ÅAZQ[Æ,μ,Å,,¾,¾,çB

fvf%ofCfx[fg,È%ož“š

MODEM.INF ,ìŠef,fff€—p,}fZfNfVf#“,É[Afvf%ofCfx[fg,È%ož“š•qŽš—ñ,ð“ü,è,é,±,Æ,ª,Å,«,Ü,·BfŠf,[fg
fAfNfZfX,íA[A%o,Éfvf%ofCfx[fg,È%ož“š,ð²,x,Ü,·Bf,fff€,©,ç•Ô,³,è,éŽAÜ,ì•qŽš—ñ,Æ^è^v,·,é
%ož“š•qŽš—ñ,ªCE©,Á,©,ç,È,·,è,ìA^ø,«±,«fOf[fof<,È [Responses] fZfNfVf#“,ð²,x,Ü,·B,½,¾,μA—
áŠO,Æ,μ,Å[A<append> f}fNf},ªŠÜ,Ü,è,Å,ç,é•qŽš—ñ,ì[A%o,ì•”ª,ªfvf%ofCfx[fg
fZfNfVf#“,Å^è^v,μ,½ê±,í[AfOf[fof< fZfNfVf#“,íCÿð,³,è,Ü,¹,ñB’ä,í,è,É[AfŠf,[fg fAfNfZfX,ì•qŽš—
ñ,ìŽc,è,ì•”ª,ªf,fff€,©,ç“ž’...’,é,ì,ð”•bŠÖ’Ö,ž,Ü,·B
ufvf%ofCfx[fg,È%ož“š,ì—áv,É—á,ª, ,é,ì,ÅAZQ[Æ,μ,Å,,¾,¾,çB

fvf%ofCfx[]fg,È%ž“š,ì—á

ŽŸ,ÉŽ!,.,ì[]Afvf%ofCfx[]fg,È%ž“š,à“ü,Á,Ä,č,éfZfNfVf†f“,ì—á,Å,·[]B'Ç%Á,μ,½fZfNfVf†f“,É,í[]A,±,ì•û-
@,Å%ž“š,đ'“ü,.,é,±,Æ,đ,“Š©,ß,μ,Ü,·[]B

```
COMMAND_LISTEN=ATS0=1<cr>  
CONNECT=<cr><lf>CONNECT <carrierbps><cr><lf>  
CONNECT_EC=<cr><lf>CONNECT <carrierbps>/MNP<cr><lf>  
CONNECT_EC=<cr><lf>CONNECT <carrierbps>/MNP/COMPRESSED<cr><lf>  
CONNECT_EC=<cr><lf>CONNECT <carrierbps>/MNP COMPRESSED<cr><lf>  
CONNECT_EC=<cr><lf>CONNECT <carrierbps>/V42<cr><lf>  
CONNECT_EC=<cr><lf>CONNECT <carrierbps>/V42BIS<cr><lf>
```

□s,ìĈep'±

%~<L□t (\) ,í□AfRf}f"fh,Ü,½,í%ž"š,žŸ,ì□s,É'±,,±,Æ,ðŽ!,μ,Ü,·□B□s,ìĈep'±,ðŽg,æ
,Æ□Aftf@fCf<,"Ç,Ý,â,,,: ,é,±,Æ,ž,Ä,«,Ü,·□B

ŽŸ,É—á,ðŽ!,μ,Ü,·□B

CONNECT_v42=\

<cr><lf>CARRIER <carrierbps><cr><lf><append>\

<cr><lf>PROTOCOL: V.42/LAPM<cr><lf>\

<cr><lf>COMPRESSION: NONE<cr><lf>\

<cr><lf>CONNECT <connectbps><cr><lf>

%~<L□t,í□A'P"Æ,Á<L□q,·,é,Æ□A•K, ,□sĈep'±<L□t,Æ,μ,Ä%žŽß,ž,é,é,±,Æ,É'□^Ó,μ,Ä,,¾,¾,č□B

%~<L□t,ðŠÜ,þfRf}f"fh,ðf,ff€,ÄŽg,æé□ž,í□AfRf}f"fh,ð"ü—í,·,é,Æ,«,É□A"ň□d,ì%~<L□t (\) ,ðŽg,Á,Ä,-
,¾,¾,č□B

,½,Æ,í,î□AAT&T Comsphere 3820 f,ff€,í□AN5 ,Æ,č,æfRf}f"fh,ðŽg,Á,ÄfGf%□[□§ĈEä<@"\,ð—

LCØ,É,μ,Ü,·□B,±,lf,ff€,ì□%Šú%»•¶Žš—ň,É,í□AN5 ,Ä,í,È, \N5 ,Æ"ü—í,μ,Ä,,¾,¾,č□B<L□q,ðŠÔ^á,æ

,Æ□Af_fCf,f<,μ,æ,æ,Æ,μ,½,Æ,«,ÉfŠf,□[fg fAfNfZfX, ©,çfn□[fhfEfffA fGf%□[,ž•Ô,ž,é,Ü,·□B

fGfCfŠfAfX,đŠ,,è“-,Ä,é

“Á'è,ìf,fff€,ìfRf}}f“fh•¶Žš—ñ,ª□AŠù,É•Ê,ìf,fff€,É□Ý'è,³,è,Ä,ç,éfRf}}f“fh•¶Žš—ñ,Æ“- ,¶,Ä, ,é□ê□‡,í□ACEäŽ
Ò,ìf,fff€-¼,đ'OŽÒ,ìf,fff€,ìfGfCfŠfAfX,Æ,μ,ÄŽg—p,Ä,«,Ü,·□B

ŽŸ,É—á,đŽ!,μ,Ü,·□B

[AT&T Comsphere 3810]

ALIAS=AT&T Comsphere 3820

,±,ì—á,Ä,í□AAT&T Comsphere 3810 ,í□AAT&T Comsphere 3820 ,ìfRf}}f“fh•¶Žš—ñ,đŽg,ç,Ü,·□B

'□ fGfCfŠfAfX,É'í,μ,ÄfGfCfŠfAfX,đŽg,±,±

,Æ,í,Ä,«,Ü,¹,ñ□B,Ä,Ü,è□AfGfCfŠfAfX,ìfìXfg,Ä,«,Ü,¹,ñ□B,½,Æ,!,í□A, ,éf,fff€,ìfGfCfŠfAfX,đ 2
,Ä,ìf,fff€,ÉŽg,±□ê□‡,í□A,»,è,¼,è,ìf,fff€,ìfGf“fgfŠ,Ä'¼□ÚfGfCfŠfAfX,É,μ,È,¯,è,í,È,è,Ü,¹,ñ□B

[AT&T Comsphere 3811]

ALIAS=AT&T Comsphere 3820

ŽŸ,ì,æ,±,ÈŽw'è,í,Ä,«,Ü,¹,ñ□B

[AT&T Comsphere 3811]

ALIAS=AT&T Comsphere 3810

f,fff€,ðfefXfg,·,é

f,fff€,ðŽg,Á,Ä,æ,Ü,□Ú±,Á,«,È,ç□ê□‡,í□AWindows NT fnfCfp□[f^□[f~fif<,ðŽg,Á,Äf,fff€
,íÇYŠ·□«,ðfefXfg,μ,Ä,,¾,¾,ç□B

Windows NT fnfCfp□[f^□[f~fif<,ðŽg,Á,Äf,fff€,ðfefXfg,·,é,É,í

- 1 [fAfNfZfTfŠ] ftfHf<f_ì [fnfCfp□[f^□[f~fif<] ftfHf<f_,ðfNfŠfbfN,μ,Ä□A[fnfCfp□[f^□[f~fif<]
,ðfNfŠfbfN,μ,Ü,·□B
- 2 [□Ú±,ì□Ý'è] f_fCfAf□fO f{fbfNfX,ì [-¼'O] f{fbfNfX,É-¼'O,ð"ü—í,μ□AZÿ,É [OK] ,ðfNfŠfbfN,μ,Ü,·□B
- 3 [□Ú±,ì□Ý'è] f_fCfAf□fO f{fbfNfX,ì [fLfff"fZf<] ,ðfNfŠfbfN,μ,Ü,·□B
fnfCfp□[f^□[f~fif<,Á,í□A[□Ú±·ú-@] f{fbfNfX,É^ê—•Žì,¾,é,Ä,ç,é□Å□%o,ìf,fff€,ðfefXfg,¾,é,é,±
,Æ,É'□^Ó,μ,Ä,,¾,¾,ç□B
- 4 [fnfCfp□[f^□[f~fif<] fEfBf"fhfE,Á□A□uat□v,Æ"ü—í,μ,Ü,·□B
f,fff€,©,ç OK ,Æ,ç,æ•ŹŠ—ñ,ª•Ô,¾,é□A%œ-É,É•Žì,¾,é,é,í,,Ä,·□Bf,fff€
,É,æ,Á,Ä,í□ACE<%ÊfR□[fh,ì□Ý'è,É%ž,Ź,Ä 0 ,ª•Ô,¾,é,é□ê□‡,à, ,è,Ü,·□B
- 5 fnfCfp□[f^□[f~fif<,ðŽg,Á,Ä,àf,fff€,ª<@"\,μ,È,ç□ê□‡,í□Af,fff€,ì□»'çCE³,É-â,ç□‡,í,¹,Ä,,¾,¾,ç□B

,±,İfGf%o[]l,İA'Êí,İó<µ,Ä,Í"[]µ,Ü,¹,ñ[]BfRf"fsf...[]f^,ðÄ<N"®µ,Ä[]AfGf%o[]l,ª"[]µ,·,é'O,É[]s,Á,½[]\
[]¬,İ•İ[]X,ª,·,x,Ä—LÆø,É,È,Ä,Ä,ç,é,±,Æ,ðŠm" F,µ,Ä,,³/₄,³,ç[]BfGf%o[]l,ª%øðÆ^,³,ê,È,ç[]ê[]‡,İ[]AWindows
NT ,İfCfxf"fg f[]fO,ðŽQ[]Æ,µ,ÄÆx[]Ü,½,İfGf%o[]l,İÜ[]x,ð'²,x,Ä,,³/₄,³,ç[]B

,±,İfGf%o[]l,İ[]AfŠf,[]lfg fRf"fsf...[]f^,İfNf%ofCfAf"fg f%ofCfZf"fx,ª'«,è,È,,È,Á,½,½,ß,ÉfŠf,[]lfg fRf"fsf...
[]f^,Ö,İÜ'±,ª'""Ü,³,ê,Ä"[]µ,½,Æ[]l,ç,ê,Ü,·[]Bfvfxfef€ŠÇ—[]ŽÖ,É~A—[]µ,Ä[]AfNf%ofCfAf"fg f
%ofCfZf"fx,ð'Ç%Á[]w"ü,µ,Ä,à,ç,¤,©[]A,Ü,½,Í,Ü,©,İfŠf,[]lfg fRf"fsf...[]f^,ðŽw'è,µ,Ä,à,ç,Á,Ä,,³/₄,³,ç[]B

fGf%o[] f[]fbfz[]fW

- 600 '€[]•Ü—~'t,Å,·[]B
- 601 f[]f[]fg fnf"fhf<,^{a-3}CEø,Å,·[]B
- 602 f[]f[]fg,ÍŠù,ÉŠJ,©,ê,Ä,ç,Ü,·[]B
- 603 "[]MŽÒ,Ìfofbftf@,^a[]-³,·-³,Ü,·[]B
- 604 CEè,Á,½>[]î•ñ,^aŽw'è,³,ê,Ü,μ,½>[]B
- 605 f[]f[]fg>[]î•ñ,ð[]Ý'è,Å,«,³,Ü,¹,ñ,Å,μ,½>[]B
- 606 f[]f[]fg,^a[]Ú'±,³,ê,Ä,ç,Ü,¹,ñ>[]B
- 607 -³CEø,ÉfCfxf"fg,Å,·[]B
- 608 fffofCfX,^a'[][]Ý,μ,Ü,¹,ñ>[]B
- 609 fffofCfX f^fCfv,^a'[][]Ý,μ,Ü,¹,ñ>[]B
- 610 fofbftf@,^{a-3}CEø,Å,·[]B
- 611 f<[]f[]g,Í—~—p,Å,«,³,Ü,¹,ñ>[]B
- 612 f<[]f[]g,ÍŠ,,è"—,Ä,ç,ê,Ä,ç,Ü,¹,ñ>[]B
- 613 -³CEø,É^³[]k,^aŽw'è,³,ê,Ü,μ,½>[]B
- 614 fofbftf@•s'«,Å,·[]B
- 615 f[]f[]g,^aCE©,Å,©,è,Ü,¹,ñ>[]B
- 616 "ñ"—Šú—v<[],^a•Ü—~'t,Å,·[]B
- 617 f[]f[]g,Ü,½,ÍfffofCfX,ÍŠù,É[]ø'f,³,ê,Ä,ç,Ü,·[]B
- 618 f[]f[]g,^aŠJ,©,ê,Ä,ç,Ü,¹,ñ>[]B
- 619 f[]f[]g,^a[]ø'f,³,ê,Ä,ç,Ü,·[]B
- 620 fGf"fhf|fCf"fg,^a,è,Ü,¹,ñ>[]B
- 621 "d~b' ftf@fCf<,ðŠJ,·,Ü,¹,ñ>[]B
- 622 "d~b' ftf@fCf<,ð"Ç,Ý[]ž,ß,Ü,¹,ñ>[]B
- 623 "d~b' ,ÌfGf"fgfŠ,^aCE©,Å,©,è,Ü,¹,ñ>[]B
- 624 "d~b' ftf@fCf<,É[]',«[]ž,ß,Ü,¹,ñ>[]B
- 625 "d~b' ftf@fCf<,Ì't,É-³CEø,É>[]î•ñ,^aCE©,Å,©,è,Ü,μ,½>[]B
- 626 •[]Žš—ñ,ð"Ç,Ý[]ž,ß,Ü,¹,ñ>[]B
- 627 fL[],^aCE©,Å,©,è,Ü,¹,ñ>[]B
- 628 f[]f[]g,^a[]ø'f,³,ê,Ü,μ,½>[]B
- 629 fŠf,[]f[]g fRf"fsf...[]f^,É,æ,Á,Äf[]f[]g,^a[]ø'f,³,ê,Ü,μ,½>[]B
- 630 fn[]f[]hfEfFfA[]áŠQ,Ì,½,ß,Éf[]f[]g,^a[]ø'f,³,ê,Ü,μ,½>[]B
- 631 f[]f[]g,Íft[]fU[]f,É,æ,Á,Ä[]ø'f,³,ê,Ü,μ,½>[]B
- 632 []\ç'ì,ÌfTfCfY,^aCEè,Á,Ä,ç,Ü,·[]B
- 633 f[]f[]g,ÍŠù,ÉŽg—p't,©[]AfŠf,[]f[]g fAfNfZfX f_fCf,,f<fAfEfg,É'Í,μ,Ä[]-³,ê,Ä,ç,Ü,¹,ñ>[]B
- 634 ,±,ÌfRf"fsf...[]f^,ðfŠf,[]f[]g flfbfgf[]fN,É"o~^,Å,«,³,Ü,¹,ñ,Å,μ,½>[]B
- 635 •s-¾,ÉfGf%o[]
- 636 f[]f[]g,ÉCEè,Á,½,fffofCfX,^a'•',...³,ê,Ä,ç,Ü,·[]B

- 637 •ŕŽš—ň,đ•İŠ.,.é,±,Æ,ª,Å,«,Ü,¹,ň,Å,µ,½ΠB
- 638 —v<Π,Íf^fCf€fAfEfg,µ,Ü,µ,½ΠB
- 639 "ň"~ŠúflfbfgfΠΠfN,ª, ,è,Ü,¹,ňΠB
- 640 NetBIOS fGf%ΠΠ[,ª"Πŕ,µ,Ü,µ,½ΠB
- 641 fΠΠ[foΠ[,ÍfNf%oCfAf"fg,đfTfΠ[fg.,.é,½,β,É•K—v,È NetBIOS Ž'CE¹,đŠ,,è"—,Ä,é,±,Æ,ª,Å,«,Ü,¹,ň,Å,µ,½ΠB
- 642 NetBIOS -¼,ì 1 ,Á,ÍΠAŠù,ÉfŠf,Π[fg flfbfgfΠΠfN,É"o~^,³,è,Ä,ç,Ü,·ΠB
- 643 fΠΠ[foΠ[,ÍflfbfgfΠΠfN fAf_fvf^,ÉpášQ,ª, ,è,Ü,·ΠB
- 644 flfbfgfΠΠfN fΠfbfZΠ[fw,đŽóΠM,µ,Ü,¹,ňΠB
- 645 "à•"~FΠØfGf%ΠΠ[
- 646 ,±,ÍfAfJfEf"fg,ÍΠA,±,ìŽžŠÓ'Ň,ÉfΠfOfI",.,é,±,Æ,đ<-%oÅ,³,è,Ä,ç,Ü,¹,ňΠB
- 647 ,±,ÍfAfJfEf"fg,ÍŽg—p,Å,«,Ü,¹,ňΠB
- 648 fpfXfΠΠ[fh,ì—LCEøŠúCEÀ,ªΠØ,è,Ä,ç,Ü,·ΠB
- 649 ,±,ÍfAfJfEf"fg,ÍΠAŠf,Π[fg fAfNfZfX,đ<-%oÅ,³,è,Ä,ç,Ü,¹,ňΠB
- 650 fŠf,Π[fg fAfNfZfX fΠΠ[foΠ[,©,ç,ì%oŽ"š,ª, ,è,Ü,¹,ňΠB
- 651 f,fff€ (Ü,½,ÍΠA,Ü,©,ìΠÚ'±fffofCfX) ,©,çfGf%ΠΠ[,ª•Ó,³,è,Ü,µ,½ΠB
- 652 fffofCfX,©,ç,ì%oŽ"š,ª"~FŽ~,Å,«,Ü,¹,ňΠB
- 653 fffofCfX,É,æ,Ä,Ä—v<Π,³,è,½f}fNfΠ,ÍfffofCfX .INF ftf@fCf<,ÉCE©,Ä,©,è,Ü,¹,ň,Å,µ,½ΠB
- 654 fffofCfX .INF ftf@fCf<"à,ÍRf}f"fh,Ü,½,ì%oŽ"š,í-ç'è<` ,Íf}fNfΠ,đŽQΠÆ,µ,Ä,ç,Ü,·ΠB
- 655 fffofCfX .INF ftf@fCf<"à,É <message> f}fNfΠ,ªCE©,Ä,©,è,Ü,¹,ň,Å,µ,½ΠB
- 656 fffofCfX .INF ftf@fCf<,ì <defaultoff> f}fNfΠ,í-ç'è<` ,Íf}fNfΠ,đŠÜ,ň,Å,ç,Ü,·ΠB
- 657 fffofCfX .INF ftf@fCf<,đŠ], ,Ü,¹,ň,Å,µ,½ΠB
- 658 fffofCfX .INF ,Ü,½,ÍfΠfffBfA .INI ftf@fCf<"à,ÍfffofCfX-¼,ª',.,-,Ü,·ΠB
- 659 fΠfffBfA .INI ftf@fCf<,ÍΠA•s-¾,ÈfffofCfX-¼,đŽQΠÆ,µ,Ä,ç,Ü,·ΠB
- 660 fffofCfX .INF ftf@fCf<,É,Í,»,ÍRf}f"fh,É,Í,.,é%oŽ"š,ª, ,è,Ü,¹,ňΠB
- 661 fffofCfX .INF ftf@fCf<"à,ÉRf}f"fh,ª, ,è,Ü,¹,ňΠB
- 662 fffofCfX .INF ftf@fCf<,É^è—,³,è,Ä,ç,É,çf}fNfΠ,đΠÝ'è,µ,æ,æ,Æ,µ,Ü,µ,½ΠB
- 663 fΠfffBfA .INI ftf@fCf<,ÍΠA•s-¾,ÈfffofCfX f^fCfv,đŽQΠÆ,µ,Ä,ç,Ü,·ΠB
- 664 fΠf,š,đŠ,,è"—,Ä,é,±,Æ,ª,Å,«,Ü,¹,ňΠB
- 665 fΠ[fg,ªfŠf,Π[fg fAfNfZfX,É'Í,µ,ÄΠΠ-³,è,Ä,ç,Ü,¹,ňΠB
- 666 f,fff€ (Ü,½,ÍΠA,Ü,©,ìΠÚ'±fffofCfX) ,ª<@"\,µ,Ä,ç,Ü,¹,ňΠB
- 667 fΠfffBfA .INI ftf@fCf<,đ"C,ÝŽæ,é,±,Æ,ª,Å,«,Ü,¹,ňΠB
- 668 ΠÚ'±,ª"jŠü,³,è,Ü,µ,½ΠB
- 669 fΠfffBfA .INI ftf@fCf<"à,ìŽg—p-@fpf%oƒΠΠ[f^,ª-³CEø,Ä,·ΠB
- 670 fΠfffBfA .INI ftf@fCf<,©,çZfNfVfƒf"-¼,đ"C,ÝŽæ,é,±,Æ,ª,Å,«,Ü,¹,ňΠB
- 671 fΠfffBfA .INI ftf@fCf<,©,çfffofCfX f^fCfv,đ"C,ÝŽæ,é,±,Æ,ª,Å,«,Ü,¹,ňΠB
- 672 fΠfffBfA .INI ftf@fCf<,©,çfffofCfX-¼,đ"C,ÝŽæ,é,±,Æ,ª,Å,«,Ü,¹,ňΠB
- 673 fΠfffBfA .INI ftf@fCf<,©,çŽg—p-@,đ"C,ÝŽæ,é,±,Æ,ª,Å,«,Ü,¹,ňΠB
- 674 fΠfffBfA .INI ftf@fCf<,©,çΠΠ,ΠÚ'±—"x,đ"C,ÝŽæ,é,±,Æ,ª,Å,«,Ü,¹,ňΠB

675 fffffBfA .INI ftf@fCf<, ©, çÅ, 'ÉM' - "x, ð" C, ÝŽæ, é, ±, Æ, a, Å, <, Ü, 1, ñB
676 %oñü. ífrfW, Å, .B
677 f, fff€ , Å, È, ñ, a%ž "š, µ, Ü, µ, ½B
678 %ož "š, a, , è, Ü, 1, ñB
679 fL fffŠfA, ðCEÿo, Å, <, Ü, 1, ñ, Å, µ, ½B
680 f_fCf, f< fg[f" , a, , è, Ü, 1, ñB
681 fffofCfX, ©, ç^è"ÉfGf%o, a•Ô, 3, è, Ü, µ, ½B
682 ERROR WRITING SECTIONNAME
683 ERROR WRITING DEVICETYPE
684 ERROR WRITING DEVICENAME
685 ERROR WRITING MAXCONNECTBPS
686 ERROR WRITING MAXCARRIERBPS
687 ERROR WRITING USAGE
688 ERROR WRITING DEFAULTOFF
689 ERROR READING DEFAULTOFF
690 ERROR EMPTY INI FILE
691 ft[fU[-¼, Ü, ½, ífpfXf[fhA, , é, ç, í, » , ì-¼•û, a-³CEø, È, ½, ßA, ±
 , ífhf[fCf" , É, ífAfNfZfX, Å, <, Ü, 1, ñB
692 f[f[fç, Ü, ½, í' 3, è, Å, ç, éffofCfX, Åfn[fhfEfffAáŠQ, a"ñ, µ, Ü, µ, ½B
693 ERROR NOT BINARY MACRO
694 ERROR DCB NOT FOUND
695 ERROR STATE MACHINES NOT STARTED
696 ERROR STATE MACHINES ALREADY STARTED
697 ERROR PARTIAL RESPONSE LOOPING
698 fffofCfX, ì .INF ftf@fCf<, ì%ž "šfL[-¼, ìCE`Ž®, a^á, ç, Ü, .B
699 fffofCfX, ì%ž "š, afofbftf@ f[f[f[f[f[f[f, ð^ø, <<N, ±, µ, Ü, µ, ½B
700 fffofCfX .INF ftf@fCf<, í"WŠjCEã, íRf}f"fh, a', , -, Ü, .B
701 fffofCfX, í COM fhf%ofCfo, É, æ, Å, ÄfTf[fç, 3, è, Å, ç, È, ç'ÉM' - "x, É•í, í, è, Ü, µ, ½B
702 fffofCfX, ©, ç-Šú, µ, È, ç%ž "š, ðŽóM, µ, Ü, µ, ½B
703 ERROR INTERACTIVE MODE
704 ERROR BAD CALLBACK NUMBER
705 ERROR INVALID AUTH STATE
706 ERROR WRITING INITBPS
707 X.25 f'fžwž!
708 fAfjEf"fg, ì-LCEøŠúCEÀ, añø, è, Å, ç, Ü, .B
709 fhf[fCf" , ífpfXf[fh•íXfGf%o, Å, .BfpfXf[fh, a'Z, ç, ©A, Ü, ½, í^È'O, ÉŽg-p, µ, Å, ç
 , ½fpfXf[fh, ðžw'è, µ, ½%Å" \ñ<, a, , è, Ü, .B
710 f, fff€ , ðŽg-p, µ, Å'ÉM't, ÉfvfŠfAf< f[f[f[f%of" fGf%o, a"ñ, µ, Ü, µ, ½B
711 RasMan , ì%Šú%o», ÉŽ , "s, µ, Ü, µ, ½BfCfxf"fg f[fO, ðŠm"F, µ, Å, ¾, 3, çB

- 712 Bipler f|f|fg,ðp%Šú%»μ,Ä,ç,Ü,·pB,μ,î,ç,μ,Ä,©,çfŠf_fCf,,f<,μ,Ä,,¾,¾,çpB
- 713 Žg—p,Ä,«,é ISDN %ññü,ä, ,è,Ü,¹,ñpB
- 714 fR|f<,Ä,«,é ISDN f`fff|f<,ä, ,è,Ü,¹,ñpB
- 715 •iŽ,î,«,ç“d~b%ññü,É,æ,éfGf%|f,ä,½,·,·,·,Ü,·pB
- 716 fŠf,|f|fg fAfNfZfX IP ,ì|p~-,ÍŽg—p,·,é,±,Æ,ä,Ä,«,Ü,¹,ñpB
- 717 fŠf,|f|fg fAfNfZfX IP fAfhfCfX,ì|p~“|fv|f<,É—~—p,Ä,«,é IP fAfhfCfX,ä, ,è,Ü,¹,ñpB
- 718 fŠf,|f|fg PPP fsfA,©,ç,ì—LCEø,È%ž“š‘Ò,ç,ìŠÔ,É|Af^fCfEfAfEfg,μ,Ü,μ,½pB
- 719 fŠf,|f|fg fRf“fsf...|f^,É,æ,è PPP ,ì|p~¹,¾,è,Ü,μ,½pB
- 720 PPP pšCEäfvf|fgfRf<,ä|p~-,¾,è,Ä,ç,Ü,¹,ñpB
- 721 fŠf,|f|fg PPP fsfA,ä%ž“š,μ,Ü,¹,ñpB
- 722 PPP fpfPfbfg,ä-³CEø,Ä,·pB
- 723 pÚ“a”Ôp|f,ÆpÚ“ö”Ôp|f,ðŠÜ,ß,½“d~b”Ôp|f,ä,·,·,·,Ü,·pB
- 725 IPX f<|f^|f,ä|Cf“fXfg|f<,¾,è,Ä,ç,È,ç,½,ßpA,±,ì|p|fg,Ä IPX fvf|fgfRf<,ìf_fCf,,f<fCf“,Ä,«,Ü,¹,ñpB
- 726 IPX fvf|fgfRf<,ì“Žž,É•;|p~,ìf|p|fg,Äf_fCf,,f<fAfEfg,Ä,«,Ü,¹,ñpB
- 727 TCPCFG.DLL ,ÉfAfNfZfX,Ä,«,Ü,¹,ñpB
- 728 fŠf,|f|fg fAfNfZfX,ÉfofCf“fh,¾,è,Ä,ç,é IP fAf_fvf^,äCE©,Ä,©,è,Ü,¹,ñpB
- 729 IP fvf|fgfRf<,ä|Cf“fXfg|f<,¾,è,Ä,ç,È,ç,½,ßpASLIP ,ÍŽg—p,Ä,«,Ü,¹,ñpB
- 730 fRf“fsf...|f^,ì“o~^,äŠ@—¹,μ,Ä,ç,Ü,¹,ñpB
- 731 fvf|fgfRf<,ä|p~-,¾,è,Ä,ç,Ü,¹,ñpB
- 732 PPP flfSfVfG|fVfj“,äŽù‘©,μ,Ä,ç,Ü,¹,ñpB
- 733 ,±,ì|f|fbfg|p|fN fvf|fgfRf<,ì PPP pšCEäfvf|fgfRf<,ìpA,±,ìf|p|fo|f,Ä,ì—~—p,Ä,«,Ü,¹,ñpB
- 734 PPP fŠf“fNpšCEäfvf|fgfRf<,ä|p~¹,μ,Ü,μ,½pB
- 735 f|p|fo|f,ì—v<|p,μ,½fAfhfCfX,ð<“Ü,μ,Ü,μ,½pB
- 736 fŠf,|f|fg fRf“fsf...|f^,ì|pšCEäfvf|fgfRf<,ð|p~¹,μ,Ü,μ,½pB
- 737 f<|f|fvfofbfN,ðCEÿp,μ,Ü,μ,½pB
- 738 f|p|fo|f,ìfAfhfCfX,ðŠ,,è“-Ä,Ü,¹,ñ,Ä,μ,½pB
- 739 fŠf,|f|fg f|p|fo|f,ä—v<|p,·,é“Fpøfvf|fgfRf<,ìpAWindows NT ,ì^Äp|f%»¾,¾,½fpfXf|p|f|fh,ðŽg—p,Ä,«,Ü,¹,ñpBfpfXf|p|f|fh,ð-¾Ž!“I,É“ü—ì,μ,ÄpÄ“xf_fCf,,f<,μ,Ä,,¾,¾,çpB
- 740 -³CEø,È TAPI |p|p~-,Ä,·pB
- 741 f|p|f|f|f< fRf“fsf...|f^,ì^Äp|f%»ðf|f|p|fg,μ,Ü,¹,ñpB
- 742 fŠf,|f|fg f|p|fo|f,ì^Äp|f%»ðf|f|p|fg,μ,Ü,¹,ñpB
- 743 fŠf,|f|fg f|p|fo|f,ì^Äp|f%»ð—v<|p,μ,Ä,ç,Ü,·pB
- 744 fŠf,|f|fg f|p|fo|f,É,æ,èŠ,,è“-Ä,ç,è,½ IPX flf|fbfg|p|fN“Ôp|f,ðŽg—p,Ä,«,Ü,¹,ñpBfCfxf“fg f|fO,ðŠm”F,μ,Ä,,¾,¾,çpB
- 752 fx|fNfŠf|f|fg,ìp~—p|f^,Ép\•¶fGf%|f,ðCEÿp,μ,Ü,μ,½pB

600

,±,İfGf%oo[,İA'Ê[í,İ6<μ,Å,Í"□¶,μ,Ü,¹,ñ□BfRf"fsf...[f^,ð□Ä<N"® ,μ,Ä□AfGf%oo[,ª"□¶,·,é'O,É□s,Á,½□\
□¬,İ•İ□X,^a,·,×,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm" F,μ,Ä,³/₄,³,ç□BfGf%oo[,ª%ooðCE^ ,³,ê,È,ç□ê□‡,Í□AWindows
NT ,İfCfxf"fg f□fO,ðŽQ□Æ,μ,ÄCEx□□,Ü,½,İfGf%oo[,İ□Ú□x,ð'²,×,Ä,³/₄,³,ç□B

601

,±,İfGf%oo[,İA'Ê[í,İ6<μ,Å,Í"□¶,μ,Ü,³,ñ□BfRf"fsf...[f^,ð□Ä<N"® ,μ,Ä□AfGf%oo[,ª"□¶,·,é'O,É□s,Á,½□\
□¬,İ•İ□X,ª,·,x,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm"F,μ,Ä,,¾,¾,ç□BfGf%oo[,ª%ooðCE^ ,³,ê,È,ç□ê□‡,Í□AWindows
NT ,İCfxf"fg f□fO,ðŽQ□Æ,μ,ÄCEx□□,Ü,½,İfGf%oo[,İ□Ú□x,ð'²,x,Ä,,¾,¾,ç□B

602

,Ù, ©, ìfAfvfŠfP□[fVf†f“, ðf|□[fg, ðŽg, Á, Ä, †, Ü, ·□B, »), ìfAfvfŠfP□[fVf†f“, ð□I—¹, μ□Af_fCf,, f<, μ'¹/₄, μ, Ä,, ³/₄, ³, †□B

603

,±,lfGf%o[]l,íA'Ê[]í,ìó<μ,Å,í"[]¶,μ,Ü,¹,ñ[]BfRf"fsf...[]f^,ð[]Ä<N"® ,μ,Ä[]AfGf%o[][,ª"[]¶,·,é'O,É[]s,Á,½[]\
[]¬,ì•ì[]X,^ª,·,×,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm"F,μ,Ä,,^¾,^¾,ç[]BfGf%o[][,ª%oðCE^,^¾,ê,È,ç[]ê[]‡,í[]AWindows
NT ,lfCfxf"fg f[]fO,ðŽQ[]Æ,μ,ÄCEx[]Ü,½,lfGf%o[]l,ìÚ[]×,ð'²,×,Ä,,^¾,^¾,ç[]B

fŠf. [fg fAfNfZfX, ì“d~b’ ftf@fCf<, ÆfŠf, [fg fAfNfZfX, ìE»Ÿ, ìŸŸŸŸ, â^ê’v, μ, Ä, ç, È, ç%oÂ”\
Ÿ«, â, , è, Ü, .ŸB’ÊŸM’•’u (fVfŠfAf< f|[fgŸAf, fff€ , È, Ç) , ð•ïŸX, μ, ½ŸêŸ†, íŸA•K, , fŠf, [fg fAfNfZfX, ðŸÄŸ\
ŸŸ, μ, Ä, , ¾, ¾, çŸBŸuf_fCf, , f<fAfbfv flfbfgfŸŸŸfN, ðŸÄŸŸŸŸ, ., éŸv, ðŽQŸÆ, μ, Ä, , ¾, ¾, çŸB

605

fŠf.[fg fAfNfZfX,ì“d~b’ ftj@fCf<,ÆfŠf,[]fg fAfNfZfX,ìCE»Ÿ,ì[]v,μ,Ä,ç,È,ç%oÂ”\
[]«,à, ,è,Û,·[]B’Ê[]M’•’u (fVfŠfAf< f|[]fg[]Af,fff€,È,Ç) ,đ•ì[]X,μ,½[]ê[]‡,í[]A•K, ,fŠf,[]fg fAfNfZfX,đ[]Ä[]\
[]¬,μ,Ä,,¾,¾,¾,ç[]B[]uf_fCf,,f<fAbfv flfbfgf[][]fN,đ[]Ä[][]¬,·,é[]v,đŽQ[]Æ,μ,Ä,,¾,¾,¾,ç[]B
fGf%o[][,à%ođCE^,¾,è,È,ç[]ê[]‡,í[]A%oe<¿,đŽó,¬,Ä,ç,é“d~b’ fGf”fgfŠ,đ[]í[]œ,μ,Ä[]ì[]¬,μ’¼,·,©[]A,Û,½,ífŠf,[]
fg fAfNfZfX fT[]f[]rfX,đfCf”fXfg[]f<,μ’¼,μ,Ä,,¾,¾,¾,ç[]B
fŠf.[fg fAfNfZfX,ì“d~b’ ftj@fCf< (RASPHONE.PBK) ,í[]Asystemroot\System32\RAS
fffBfÇfNfgfŠ,É, ,è,Û,·[]B

,±,İfGf%oo[,İA'Ê[í,İ6<μ,Å,Í"□¶,μ,Ü,³,ñ□BfRf"fsf...[f^,ð□Ä<N"® ,μ,Ä□AfGf%oo[,ª"□¶,·,é'O,É□s,Á,½□\
□¬,İ•İ□X,ª,·,x,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm" F,μ,Ä,,¾,¾,ç□BfGf%oo[,ª%ooðCE^ ,³,ê,È,ç□ê□‡,Í□AWindows
NT ,İCfxf"fg f□fO,ðŽQ□Æ,μ,ÄCEx□□,Ü,½,İfGf%oo[,İ□Ú□x,ð'², x,Ä,,¾,¾,ç□B

607

,±,İfGf%oo[,İA'Ê[í,İ6<μ,Å,Í"□¶,μ,Ü,¹,ñ□BfRf"fsf...[f^,ð□Ä<N"® ,μ,Ä□AfGf%oo[,ª"□¶,·,é'O,É□s,Á,½□\
□¬,İ•İ□X,^a,·,x,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm" F,μ,Ä,,³/₄,³,ç□BfGf%oo[,ª%ooðCE^ ,³,ê,È,ç□ê□‡,Í□AWindows
NT ,İfCfxf"fg f□fO,ðŽQ□Æ,μ,ÄCEx□□,Ü,½,İfGf%oo[,İÚ□x,ð'²,x,Ä,,³/₄,³,ç□B

608

fŠf. [fg fAfNfZfX, ì“d~b’ ftj@fCf<, ÆfŠf, [fg fAfNfZfX, ìCE»Ÿ, ì□□¬, â^ê’v, μ, Ä, ç, È, ç%oÂ”\
□«, à, , è, Û, ·□B’ Ê□M’ •’u (fVfŠfAf< f|□[fg□Af, fff€, È, Ç) , ð•ï□X, μ, ½□ê□‡, í□A•K, , fŠf. [fg fAfNfZfX, ð□Ä□\
□¬, μ, Ä, , ¾, ¾, ç□B□uf_fCf., f<fAfbfv flfbfgf□□[fN, ð□Ä□□□¬, .: é□v, ðŽ□Q/Æ, μ, Ä, , ¾, ¾, ç□B
fGf%o□[, à%oðCE^ , ¾, è, È, ç□ê□‡, í□A%oe<¿, ðŽó, ¯, Ä, ç, é“d~b’ fGf”fgfŠ, ð□í□œ, μ, Ä□ì□¬, μ’¼, , ©□A, Û, ½, ífŠf, □[
fg fAfNfZfX fT□[frfX, ðfCf“fXfg□[f<, μ’¼, μ, Ä, , ¾, ¾, ç□B
fŠf. [fg fAfNfZfX, ì“d~b’ ftj@fCf< (RASPHONE.PBK) , í□Asystemroot\System32\RAS
fffBfÇEfNfgfŠ, È, , è, Û, ·□B

609

fŠf.[fg fAfNfZfX,ì“d~b’ ftj@fCf<,ÆfŠf,[]fg fAfNfZfX,ìCE»Ÿ,ì[]v,μ,Ä,ç,È,ç%oÂ”\
[]«,ª, ,è,Û,·[]B’Ê[]M’•’u (fVfŠfAf< f|[]fg[]Af,fff€,È,Ç) ,ð•ì[]X,μ,½[]ê[]‡,í[]A•K, ,fŠf,[]fg fAfNfZfX,ð[]Ä[]\
[]¬,μ,Ä,,¾,³,ç[]B[]uf_fCf,,f<fAbfv flfbfgf[][]fN,ð[]Ä[][]¬,·,é[]v,ðŽQ[]Æ,μ,Ä,,¾,³,ç[]B
fGf%o[][,ª%oðCE^,³,ê,È,ç[]ê[]‡,í[]A%oe<¿,ðŽó,¬,Ä,ç,é“d~b’ fGf”fgfŠ,ð[]í[]œ,μ,Ä[]ì[]¬,μ’¼,·,©[]A,Û,½,ífŠf,[]
fg fAfNfZfX fT[]f[]rfX,ðfCf“fXfg[]f<,μ’¼,μ,Ä,,¾,³,ç[]B
fŠf.[fg fAfNfZfX,ì“d~b’ ftj@fCf< (RASPHONE.PBK) ,í[]Asystemroot\System32\RAS
fffBfÇEfNfgfŠ,É, ,è,Û,·[]B

,±,İfGf%oo[,İA'Ê[í,İ6<μ,Å,Í"□¶,μ,Ü,³,ñ□BfRf"fsf...□[f^,ð□Ä<N"® ,μ,Ä□AfGf%oo[,ª"□¶,·,é'O,É□s,Á,½□\
□¬,İ•İ□X,ª,·,x,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm"F,μ,Ä,,¾,¾,ç□BfGf%oo[,ª%ooðCE^ ,³,ê,È,ç□ê□‡,Í□AWindows
NT ,İCfxf"fg f□fO,ðŽQ□Æ,μ,ÄCEx□□,Ü,½,İfGf%oo[,İ□Ú□x,ð'²,x,Ä,,¾,¾,ç□B

f|f|b|f|g|f|f|f|N,i|N|N-,ŠÔ^á,Á,Ä,ç,é%oÂ"\|«,ª, ,è,Û,·|B|f|R|f"|"f|s|f...|f|^,ð|Ä|N"®|,μ,Ä|A|f|G|f%o|L,ª"-
|¶|,·,é'O,É|s,Á,½|N|N-,ì•|X,ª,·,×,Ä—L|E|ø,É,È,Á,Ä,ç,é,±,Æ,ðŠm"F,μ,Ä,,¾,¾,ç|B|f|G|f%o|L,ª
%oð|E|^,¾,è,È,ç|è|¶,í|A|W|i|n|d|o|w|s|N|T| ,|f|C|f|x|f"|"f|g|f|f|O,ðŽ|Q|Æ,μ,Ä|E|x|N|,Û,½,|f|G|f%o|L,ì|Ú|x,ð'^2,×,Ä,-
,¾,¾,ç|B

613

,±,İfGf%o[]l,İA'Ê[]í,İó<μ,Å,Í"[]¶,μ,Ü,¹,ñ[]BfRf"fsf...[]f^,ð[]Ä<N"® ,μ,Ä[]AfGf%o[]l,ª"[]¶,·,é'O,É[]s,Á,½[]\
[]¬,İ•İ[]X,²,·,×,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm"F,μ,Ä,³/₄,³,ç[]BfGf%o[]l,ª%oðCE^,³,ê,È,ç[]ê[]‡,Í[]AWindows
NT ,İCfxf"fg f[]fO,ðŽQ[]Æ,μ,ÄCEx[]Ü,½,İfGf%o[]l,İÜ[]×,ð'²,×,Ä,³/₄,³,ç[]B

,±,İfGf%oo[,İA'Ê[í,İ6<μ,Å,Í"□¶,μ,Ü,³,ñ□BfRf"fsf...[f^,ð□Ä<N"® ,μ,Ä□AfGf%oo[,ª"□¶,·,é'O,É□s,Á,½□\
□¬,İ•İ□X,ª,·,x,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm"F,μ,Ä,,¾,¾,ç□BfGf%oo[,ª%ooðCE^ ,³,ê,È,ç□ê□‡,Í□AWindows
NT ,İCfxf"fg f□fO,ðŽQ□Æ,μ,ÄCEx□□,Ü,½,İfGf%oo[,İ□Ú□x,ð'², x,Ä,,¾,¾,ç□B

615

fŠf. [fg fAfNfZfX, ì“d~b’ ftj@fCf<, ÆfŠf, [fg fAfNfZfX, ìCE»Ÿ, ì□□¬, â^ê’v, μ, Ä, ç, È, ç%oÂ”\
□«, â, , è, Û, ·□B’ Ê□M’ •’u (fVfŠfAf< f|□[fg□Af, fff€, È, Ç) , ð•ï□X, μ, ½□ê□‡, í□A•K, , fŠf. [fg fAfNfZfX, ð□Ä□\
□¬, μ, Ä, , ¾, ¾, ç□B□uf_fCf., f<fAfbfv flfbfgf□□[fN, ð□Ä□□□¬, .: é□v, ðŽ□Q□Æ, μ, Ä, , ¾, ¾, ç□B
fGf%o□[, â%oðCE^ , ¾, ê, È, ç□ê□‡, í□A%oe<¿, ðŽó, ¯, Ä, ç, é“d~b’ fGf”fgfŠ, ð□í□œ, μ, Ä□ì□¬, μ’¼, ., ©□A, Û, ½, ífŠf, □[
fg fAfNfZfX fT□[frfX, ðfCf“fXfg□[f<, μ’¼, μ, Ä, , ¾, ¾, ç□B
fŠf. [fg fAfNfZfX, ì“d~b’ ftj@fCf< (RASPHONE.PBK) , í□Asystemroot\System32\RAS
fffBfÇEfNfgfŠ, È, , è, Û, ·□B

,±,İfGf%oo[,İA'Ê[í,İ6<μ,Å,Í"□¶,μ,Ü,³,ñ□BfRf"fsf...[f^,ð□Ä<N"® ,μ,Ä□AfGf%oo[,ª"□¶,·,é'O,É□s,Á,½□\
□¬,İ•İ□X,ª,·,x,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm"F,μ,Ä,,¾,¾,ç□BfGf%oo[,ª%ooðCE^ ,³,ê,È,ç□ê□‡,Í□AWindows
NT ,İfCfxf"fg f□fO,ðŽQ□Æ,μ,ÄCEx□□,Ü,½,İfGf%oo[,İ□Ú□x,ð'², x,Ä,,¾,¾,ç□B

617

fŠf, [fg fAfNfZfX, afGf"fgfŠ, Æ, ÌÚ'±, ðØ'f, µ, í, é, Ü, Å'Ò, Â, ©A, Ü, ½, ÍŠf, [fg fAfNfZfX fT[frfX, ð—
¹, µ, Ä, ¾, ³, çB

,±,İfGf%oo[,İA'Ê[í,İ6<μ,Å,Í"□¶,μ,Ü,³,ñ□BfRf"fsf...[f^,ð□Ä<N"® ,μ,Ä□AfGf%oo[,ª"□¶,·,é'O,É□s,Á,½□\
□¬,İ•İ□X,ª,·,x,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm"F,μ,Ä,,¾,¾,ç□BfGf%oo[,ª%ooðCE^ ,³,ê,È,ç□ê□‡,Í□AWindows
NT ,İCfxf"fg f□fO,ðŽQ□Æ,μ,ÄCEx□□,Ü,½,İfGf%oo[,İ□Ú□x,ð'²,x,Ä,,¾,¾,ç□B

,±,İfGf%oo[,İA'Ê[í,İ6<μ,Å,Í"□¶,μ,Ü,³,ñ□BfRf"fsf...[f^,ð□Ä<N"® ,μ,Ä□AfGf%oo[,ª"□¶,·,é'O,É□s,Á,½□\
□¬,İ•İ□X,ª,·,x,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm"F,μ,Ä,,¾,¾,ç□BfGf%oo[,ª%ooðCE^ ,³,ê,È,ç□ê□‡,Í□AWindows
NT ,İCfxf"fg f□fO,ðŽQ□Æ,μ,ÄCEx□□,Ü,½,İfGf%oo[,İ□Ú□x,ð'²,x,Ä,,¾,¾,ç□B

f|f|b|f|g|f|f|f|N,i|N|N-,ŠÔ^á,Á,Ä,ç,é%oÂ"\«,ª, ,è,Û,·|B|f|R|f"|"f|s|f...|f|^,ð|Ä|N"@,μ,Ä|A|f|G|f%o|L,ª"-
|f|,·,é'O,É|s,Á,½|N|N-,ì•|X,ª,·,×,Ä-L|E|ø,É,È,Á,Ä,ç,é,±,Æ,ðŠm"F,μ,Ä,,¾,¾,ç|B|f|G|f%o|L,ª
%oð|E|^,¾,è,È,ç|è|ç,í|A|W|i|n|d|o|w|s|N|T| ,|f|C|f|x|f"|"f|g|f|f|O,ðŽ|Q|Æ,μ,Ä|E|x|N|,Û,½,|f|G|f%o|L,ì|Ú|x,ð'^2,×,Ä,-
,¾,¾,ç|B

621

fŠf. [fg fAfNfZfX fT [frfX, í \systemroot\System32\RAS fffBfĈfNfgfŠ.É, ,é RASPHONE.PBK
ftf@fCf<,đŽg,č,Ü,·B,±,łftf@fCf<,ª,±,łpfX [ă,É, ,é,±,Æ,đŠm" F,μ AfŠf, [fg fAfNfZfX,đ [Ä<N" @,μ,Ä,-
,³/₄,³,č B

622

fŠf. [fg fAfNfZfX fT [frfX, í\Asystemroot\System32\RAS fffBfĈfNfgfŠ,É, ,é RASPHONE.PBK
ftf@fCf<,đŽg,č,Ü,·B,±,łftf@fCf<,ª,±,łpfX [ă,É, ,é,±,Æ,đŠm" F,μ AfŠf, [fg fAfNfZfX,đÄ<N" @,μ,Ä,-
,³/₄,³,č B

623

fŠf. [fg fAfNfZfX, íA“d~b’ ,đŠj,,±,Æ,í,Ā,«,Ü,μ,½,³AŽw’è,³,ê,½fGf“fgfŠ,³Ĉ©,Ā,©,è,Ü,¹,ñB,±,lfGf
%o [,íAf+ [fU [,³fŠf. [fg fAfNfZfX API ,Ā’ ,«ž,Ý,đ [s,č [AŠÔ^á,Á,½fGf“fgfŠ-¼,đŽw’è,μ,½ [ê [‡,É,ì,Ý”-
 [¶,μ,Ü,· [BfŠf, [fg fAfNfZfX fT [fxfX, íAsystemroot\System32\RAS fffBfĈfNfgfŠ,É, ,é RASPHONE.PBK
ftf@fCf<,đŽg,č,Ü,· [B

624

fŠf. [fg fAfNfZfX fT [frfX, í systemroot\System32\RAS fffBfCefNfgfŠ.É, ,é RASPHONE.PBK
ftf@fCf<,đŽg,č,Ü,·BfffBfXfN,²,č,Á,İ,č,É,È,Á,Ä,č,È,č,±,ÆA,±,İftf@fCf<,Ö,İ',«ž,ÝfAfNfZfXCE ,đŽ,Á,Ä,
č,é,±,Æ,đŠm”F,μ,Ä,,¾,¾,čB

625

fŠf. [fg fAfNfZfX fT [frfX, í systemroot\System32\RAS fffBfCEfNfgfŠ.É, ,é RASPHONE.PBK
ftf@fCf<,đŽg,č,Ü,·B,±,łftf@fCf<,đíœ,μAfŠf, [fg fAfNfZfX,đÄ·N“®,μ,Ä,,¾,³,čB

,±,İfGf%oo[,İA'Ê[í,İ6<μ,Å,Í"□¶,μ,Ü,³,ñ□BfRf"fsf...[f^,ð□Ä<N"® ,μ,Ä□AfGf%oo[,ª"□¶,·,é'O,É□s,Á,½□\
□¬,İ•İ□X,ª,·,x,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm"F,μ,Ä,,¾,¾,ç□BfGf%oo[,ª%ooðCE^ ,³,ê,È,ç□ê□‡,Í□AWindows
NT ,İfCfxf"fg f□fO,ðŽQ□Æ,μ,ÄCEx□□,Ü,½,İfGf%oo[,İ□Ú□x,ð'²,x,Ä,,¾,¾,ç□B

fŠf. [fg fAfNfZfX, i\ -ftf@fCf<, i 1 ,Ä, É-³CEø, Èî•ň, ŠÜ, Ü, ê, Ä, ç, é%oÄ" \«, a, , è, Ü, · □B, ±, ì-â'è, ð
%oðCE^, ·, é□Ä, àŠÈ'P, È•û-@, í□AfŠf, [fg fAfNfZfX, i□ÄfCf" fXfg□[f<, Å, ·□B

fŠf. [fg fAfNfZfX, ÄfTf| [fg, ³, ê, Ä, ç, È, çf, fff€, ðŽg, Ä, Ä, ç, éê±, í□AfTf| [fg, ³, ê, Ä, ç, éf, fff€
, ÉCEðŠ·, ·, é, ©□A, Ü, ½, íCE»Ý, ìf, fff€, ðŽg—p, Å, <, é, æ, x, Éf, fff€ fXfNfŠfVfg, ð□C□³, µ, Ä, , ¾, ¾, ç□Bf, fff€
fXfNfŠfVfg, ð□C□³, ·, é•û-@, É, Ä, ç, Ä, í□A□uf, fff€, ìfXfNfŠfVfg_ftf@fCf<, ÌŠT—v□v, ðŽQ□Æ, µ, Ä, , ¾, ¾, ç□B

fŠf. [fg fAfNfZfX, ìfXfNfŠfVfg_ftf@fCf< (PAD.INF□AMODEM.INF□A, ", æ, Ñ SWITCH.INF) , í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ, É, , è, Ü, ·□B

,à,π^è"x"̄,¶fGf"fgfŠ,Éf_fCf,,f<,μ,Ä,,¾,¾,çB,»,ê,Å,à,±,ìf¶fbfZ¶[fW,ª•\Ž!,¾,¾,ééêê¶,í¶Af,fff€,ì¶
%Šú'Ê¶M'¬"x,ð%ºº°,°Ä¶Af,fff€,ìŠg'£<@"\,ðflft,É,μ,Ä,,¾,¾,çB¶uf,fff€,ì<@"\,ð¶Y'è,·.é¶v,ðŽQ¶Æ,μ,Ä,-
¾,¾,çB,»,ê,Å,à-â'è,ª%ººCE^,μ,È,çêê¶,í¶AfVfXfef€ŠÇ—¶ŽÒ,É-â,ç¶¶,í,¹,Ä,,¾,¾,çB

ŽŸ, ì, ç, , , ê, ©, ì—□—R, Å□AfŠf“fN, a□Ø’f, ³, ê, Ä, ç, Ü, ·□B

- “d~b%ñ□ü, ì%ñ•œ•s”\, ÈfGf%□[
- %ñ□ü, ìfmfCfY
- fVfXfef€ŠÇ—□ŽÒ, É, æ, é□Ú’±, ì□Ø’f

□Ä“xfŠf“fN, đŠm—s, , , é, É, í□A, à, x^ê“xf_fCf,,f<, μ, Ä,, ³/4, ³, ç□B[ft□[fU□[□Ý’è] , ì [f_fCf,,f<] f^fu, đŽg, x
 ,Æ□AŽ©“@“l, ÈfŠf_fCf,,f<, ³, ê, é, æ, x, É□Ý’è, Å, «, Ü, ·□B□ufŠf_fCf,,f<, ì□Ý’è□v, đŽQ□Æ, μ, Ä,, ³/4, ³, ç□B
 fGf%□[, a%đCE^ , ³, ê, È, ç□ê□‡, í□Af, fff€, ì□%Šú’É□M’→“x (bps) , đ%° , °, Ä□A, à, x^ê“xf_fCf,,f<, μ, Ä, -
 , ³/4, ³, ç□B□uf, fff€, ì<@“\, đ□Ý’è, , , é□v, đŽQ□Æ, μ, Ä,, ³/4, ³, ç□B

630

- ŽŸ, ì, ç, , è, ©, ì—□—R, Å□AfŠf“fN, a□Ø’f, ³, ê, Ä, ç, Ü, ·□B
- f,fff€ (,Ü,½,Í,» ,ì’¼,ì’É□M’•’u) ,Å”□¶,μ,½%ñ•œ•s“\,ÈfGf%□□[
- ’É□Mf]□[fg,Å”□¶,μ,½%ñ•œ•s“\,ÈfGf%□□[
- f,fff€ fP□[fuf<, aŠO, è, Ä, ç, é□é□‡
- â’è, ðf’f, μ□A□C□³, ·, é, ½, ß, ÉŽÀ□s, Å, «, é’î□^•û-@, íŽŸ, ì, Æ, ”, è, Å, ·□B
- f,fff€ ,ì“d€¹, a“ü, Ä, Ä, ”, è□AfP□[fuf<, aŠmŽÄ, É□Ú’±, ³, è, Ä, ç, é, ±, Æ, ðŠm”F, μ, Ü, ·□B
- f,fff€ , a³□í, É<@“\, μ, Ä, ç, é, ±, Æ, ðŠm”F, μ, Ü, ·□B Windows NT ,lfnfCfp□[f^□[f~fif<, ðŽg, Á, Äf,fff€ ,ðfefXfg, ·, éŽè□‡, È, Ä, ç, Ä, í□A□uf,fff€, ðfefXfg, ·, é□v, ðŽQ□Æ, μ, Ä, , ¾, ³, ç□B

631

,±,lfRf"fsf...[]f^,Å□s,Á,½'€□ì,ªCE'^ö,Å%ñü,ª□Ø'f,³,ê,Ä,ç,Ü,·□Bf_fCf,,f<,μ'¼,μ,Ä,,³/4,³,ç□B

,±,İfGf%o[]l,İA'Ê[]í,İ6<μ,Å,Í"[]¶,μ,Ü,¹,ñ[]BfRf"fşf...[]f^,ð[]Ä<N"@,μ,Ä[]AfGf%o[]l,ª"[]¶,·,é'O,É[]s,Á,½[]\
[]¬,İ•İ[]X,ª,·,x,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm"F,μ,Ä,,¾,¾,ç[]BfGf%o[]l,ª%oðCE^,¾,ê,È,ç[]ê[]‡,İ[]AWindows
NT ,İfCfxf"fş f[]fO,ðŽQ[]Æ,μ,ÄCEx[]Ü,½,İfGf%o[]l,İÜ[]x,ð'²,x,Ä,,¾,¾,ç[]B

633

Šù,É,Ù,©,ìÚ'±,ì,½,ß,Éf|[]fg,ªŽg,í,ê,Ä,ç,éê±,íA,»ìÚ'±
,ðØ'f,·,é,©A,Ü,½,ÍfGf“fgfŠ,ð•ÒW,μ,ÄA,Ù,©,ì'ÊMf|[]fg,ðŽg,κ,æ,κ,É,μ,Ä,,¾,¾,çB
f|[]fg,ªŽg,í,ê,Ä,ç,È,çê±,íAfŠf,[]fg fAfNfZfX,ÉŽg,κf|[]fg,ðf_fCf,,f< fAfEfg—p,ÉÄ\¬,μ,Ä,-
,¾,¾,çBfAf_fvf^,Æf,fff€,ªfCf“fXfg[]f<,¾,¾,ç,é,±,ÆA,“,æ,Ńf|[]fg,ª'Ç%oÁ,¾,¾,ç,é,±
,Æ,ðAfRf“fgf[]f< fpf|f<,ì [f|fbfgf[]fN] ,ðŽg,Á,ÄŠm”F,μ,Ä,,¾,¾,çB[]uf_fCf,,f<fAfbfv flfbfgf[]fN,ðÄ\
\¬,·,év,ðŽQÆ,μ,Ä,,¾,¾,çB

fŠf, [fg fAfNfZfX fT [fo [L, í [A, ±, ì fRf“ fsf... [f^, ì-¼‘O, ð f f b f g f [fN, É“o~^, Å, «, Ü, ¹, ñ, Å, µ, ½ [B fV fX f e f € Š Ç
— [Ž Ò, É-â, ç [‡, í, ¹, Ä, , ¾, ³, ç [B

635

,±,İfGf%o[]l,İA'Ê[]í,İ6<μ,Å,Í"[]¶,μ,Ü,³,ñ[]BfRf"fşf...[]f^,ð[]Ä<N"@,μ,Ä[]AfGf%o[]l,³"[]¶,·,é'O,É[]s,Á,½[]\
[]¬,İ•İ[]X,³,·,x,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm"F,μ,Ä,,³/4,³,ç[]BfGf%o[]l,³%oðCE^,³,ê,È,ç[]ê[]‡,Í[]AWindows
NT ,İfCfxf"fş f[]fO,ðŽQ[]Æ,μ,ÄCEx[]Ü,½,İfGf%o[]l,İÜ[]x,ð'²,x,Ä,,³/4,³,ç[]B

fn[fhfEjFfA,ì□□→,ÆfŠf,□[fg fAfNfZfX,ìfZfbfgfAfbfv,ª□ACEÝ,ç,É^è'v,μ,Ä,ç,È,ç%oÂ"\
 □«,ª, ,è,Ü,·□B'Ê□M'•'u (fVfŠfAf< f|□[fg□Af,fff€,È,Ç) ,ð•ï□X,μ,½□ê□#,í□A•K, ,□V,μ,ç'•'u,É□#,í,¹,ÄfŠf,□[fg
 fAfNfZfX,ð□Ä□□→,μ,Ä,,¾,³,ç□B□uf_fCf,,f<fAfbfv flfbfgf□□[fN,ð□Ä□□→,·,é□v,ðŽQ□Æ,μ,Ä,,¾,³,ç□B
 ,±,ìfGf%o□[,í□AMODEM.INF ftf@fCf<"à,É 32 •¶Žš,ð'´,ì,éfZfNfVf+f" fwfbf_□[(Šp,©,Á,± ([]),Å^í,Ü,è,Ä,ç
 ,é•"•ª) ,ª, ,é□ê□#,É,à"¶,μ,Ü,·□B,Ü,,□AMODEM.INF "à,ìfZfNfVf+f" fwfbf_□[,ª 32 •¶Žš^È%oª,Å, ,é,±
 ,Æ,ðŠm" F,μ□A,Ü,©,ì'í□^•û-@,ðŽŽ,Ý,Ä,,¾,³,ç□B

,±,İfGf%o□l,İ□A'Ê□í,İ□ó<μ,Å,Í"□¶,μ,Ü,¹,ñ□BfRf"fsf...□[f^,ð□Ä<N"® ,μ,Ä□AfGf%o□l,ª"□¶,·,é'O,É□s,Á,½□\
□¬,İ•İ□X,²,·,×,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm" F,μ,Ä,,³/₄,³,ç□BfGf%o□l,ª%oðCE^,³,ê,È,ç□ê□‡,Í□AWindows
NT ,İfCfxf"fg f□fO,ðŽQ□Æ,μ,ÄCEx□□,Ü,½,İfGf%o□l,İ□Ú□×,ð'²,×,Ä,,³/₄,³,ç□B

,±,İfGf%oo[,İA'Ê[í,İ6<μ,Å,Í"□¶,μ,Ü,³,ñ□BfRf"fsf...[f^,ð□Ä<N"® ,μ,Ä□AfGf%oo[,ª"□¶,·,é'O,É□s,Á,½□\
□¬,İ•İ□X,ª,·,x,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm"F,μ,Ä,,¾,¾,ç□BfGf%oo[,ª%ooðCE^ ,³,ê,È,ç□ê□‡,Í□AWindows
NT ,İfCfxf"fg f□fO,ðŽQ□Æ,μ,ÄCEx□□,Ü,½,İfGf%oo[,İ□Ú□x,ð'²,x,Ä,,¾,¾,ç□B

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f\fbfgf\N,ì\Ñ-,ŠÔ^á,Á,Ä,ç,é%oÂ"\«,ª, ,è,Û,·BfRf"fsf...[f^,ðÄ<N"@,μ,ÄAfGf%o[,"-
¶,·,é'O,És,Á,½\Ñ-,ì•ïX,ª,·,×,Ä-LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm"F,μ,Ä,,¾,¾,çBfGf%o[,"ª
%oðCE^,¾,è,È,çê¶,íAWindows NT ,\Cfxf"fg fO,ðŽQÆ,μ,ÄEx,Û,½,\fGf%o[,"ìÚ×,ð²,×,Ä,-
,¾,¾,çB

NetBIOS ,\fGf%o[fR[fh,ð<L~^,μA"d~b,Å<ZpFTf|[fg'S"-,É-â,ç¶,í,¹,éê¶,íA,»,\fR[fh,ð'S"-
ŽÒ,É"`,ì,Ä,,¾,¾,çB

f,fff€,ª□Ú'±,ìfSfVfG□[fVf#f",ð□³□í,É□s,±,±,Æ,ª,Å,«,È,©,Á,½,©□A,Ü,½,í%ñ□ü,ÉfmfCfY,ª"□¶,µ,½%oÁ"\
 □«,ª, ,è,Ü,·□Bf,fff€,ì□%Šú'É□M'¬"x (bps) ,ð%oº,°,Ä□A,à,x^ê"x_fCf,,f<,µ,Ä,,¾,¾,¾,¾□B□uf,fff€,ì<@"\
 ,ð□Ý'è,.,é□v,.,æ,Ñ□uf,fff€,ì"Á□«□v,ðŽQ□Æ,µ,Ä,,¾,¾,¾,¾□BNetBIOS ,ìfGf
 %o□[fR□[fh,ð<L~^,µ□A"d~b,Å<Z□pfTf|□[fg'S"-É-â,ç□#,í,¹,é□é□#,í□A,»,ìfR□[fh,ð'S"-ŽÒ,É"`,ì,Ä,,¾,¾,¾,¾□B

641

fŠf. [fg fAfNfZfX fT [fo [iž'Ď'â, ., æ, ɣ, ÉfvfXfef€ŠÇ—žÒ, É^Ě—Š, ., é, ©A, Ü, ½, ÍRf"fgf [f< fpflf<, i
[fT [frfX] ,đŽg, Á, ĀAŽ © •^a, ĺRf"fsf... [f^ ĩ, ĀŽÀs, ³, é, Ā, ç, é•s•K—v, ĚfT [frfX (f [fbfZ [fW
fT [frfX [Afbf g [fN DDE fT [frfX, È, Ç) ,đ'âž~ , μ, Ā, ¾, ³, ç [B

flfbfgf□□fN fA□[fLfefNf`ff,ì□§CEÀ,É,æ,è□Aflfbfgf□□fN□ã,ÌŠefRf“fsf...□[f^,í,»è,¼,ê^ê^Ó,ì-¼'O,Å“o~^,³,ê,Ä,ç,é•K—v,^a, ,è,Ü,·□B,±,ì<K'¥,í□ALAN ,É,àfŠf,□[fg f□□[fNfXfe□[fVf†“,É,à“K—p,³,è,Ü,·□B

Ž©•^a,ìfRf“fsf...□[f^,ì-¼'O,^afifbfgf□□fN□ã,ì,Ù,©,ì,Ç,ìfRf“fsf...□[f^,Æ,à^Ù,È,é,±,Æ,ðSm”F,μ,Ü,·□B

fRf“fsf...□[f^-¼,ð•ī□X,·,é,É,í□Afrf“fgf□□[f< fpflf<,ì [flfbfgf□□fN]
 fAfCfRf“,ðf_fuf<fNfŠfbfN,μ□A□V,μ,çfRf“fsf...□[f^-¼,ð'δ,μ,Ü,·□B

Ž©•^a,ìfRf“fsf...□[f^,â^ê^Ó,ì-¼'O,ðŽ□,Â□ê□#,í□A,Ù,©,ìfRf“fsf...□[f^,^a,±,ìfRf“fsf...□[f^,ìhf□fCf“-¼,Æ^ê^v,·,éfrf“fsf...□[f^-¼,ð“o~^,μ,½,©□A,Ü,½,í,±,ìfRf“fsf...□[f^,ÅŽÅ□s,μ,Ä,ç,é NetBIOS

fAvfŠfP□[fVf†“,^a<£□#,·,é-¼'O,ð'Ç%oÁ,μ,½%oÂ“\□«,^a, ,è,Ü,·□B

- -¼'O,ð•ī□X,μ,Ä,à-â^è,^a%oðCE^,μ,È,ç□ê□#,í□AvfXfef€ŠÇ—□ŽÒ,É-â,ç□#,í,¹,Ä,,³/₄,³,ç□B

'□

- -¼'O,í^ê^Ó,Å, ,é•K—v,^a, ,é,ì,Â□AfŠf,□[fg fAfNfZfX,Æ'¼□Ú□Ú'± (fC□[fTflfbfgf□Ú'±,È,Ç),ì-¼•û,Å“Žž,É““,¶flfbfgf□□fN,É□Ú'±,·,é,±,Æ,í,Ä,«,Ü,¹,ñ□B'¼□Ú□Ú'±,³,è,Ä,ç,éflfbfgf□□fN,Ò,ìfŠf,□[fg fAfNfZfX,ð•]‰o,·,é□ê□#,í□AfŠf,□[fg fAfNfZfX,É,æ,é□Ú'±,ðŽŽ,Ý,é'O,É□Aflfbfgf□□fN frflfNf^,ð”²,ç,Ä,“,•K—v,^a, ,è,Ü,·□B

643

,±,İfGf%o□[,â"□¶,μ,½,ç□AfVfXfef€ŠÇ—□ŽÒ,É•ñ□□,μ,Ä,,¾,¾,ç□B

644

Šù,Éfłfbfgf[]fN,ÉÚ'±,μ,Ä,ç,é,Ù,©,łRf"fsf...[]f^,ª"~,łf[]f<-¼,đŽg,Á,Ä,ç,Ü,·[]B,±,łf[]f<-¼^ł,Ä,łf[]f<,í[]A[]æ,ÉÚ'±,³,è,Ä,ç,½fRf"fsf...[]f^,É'—,ç,è,Ü,·[]B,±,łfŠf,[]fg f[][]fNfXfe[]fVf#f",Åf[]fbfZ[]fW,đŽó[]M,·,é[]è[]#,í[]A[]fłfbfgf[]fN,É'¼[]Ú[]Ú'±,³,è,Ä,ç,éfRf"fsf... []f^,©,ç[]fOfłft,μ,Ä,©,ç[]A,à,ª^è"xłfbfgf[]fN,Éf_fCf,,f<fCf",μ'¼,³,È,~,è,î,È,è,Ü,¹,ň[]B

- '[]
- ,±,łfGf%[][],í[]AMicrosoft Mail ,đŽg,Á,½f[]f<,ì'—Žó[]M,É,í%øe<¿,đ—^,ł,Ü,¹,ň[]B

645

,±,İfGf%o[,İA'Ê[í,İó<μ,Å,Í"□¶,μ,Ü,¹,ñ□BfRf"fsf...[f^,ðÄ<N"® ,μ,Ä□AfGf%o[,ª"□¶,·,é'O,É□s,Á,½\
□-,İ•İ□X,ª,·,x,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm"F,μ,Ä,,¾,¾,ç□BfGf%o[,ª%oðCE^,¾,ê,È,ç□ê□¶,Í□AWindows
NT ,İfCfxf"fg f□fO,ðŽQ□Æ,μ,ÄCEx□□,Ü,½,İfGf%o[,İ□Ú□x,ð'²,x,Ä,,¾,¾,ç□B

NetBIOS ,İfGf%o[fR□[fh,ð<L~^ ,μ□A"d~b,Å<Z□pJfTf|□[fg'S"- ,É-â,ç□¶,í,¹,é□ê□¶,Í□A,» ,İfR□[fh,ð'S"-
ŽÒ,É" ` ,İ,Ä,,¾,¾,ç□B

646

,±,lfAjjfEj“fg,íAflfbfgf[]fN,Ö,lfAfNfZfX,ª[]\$CEÀ,³,ê,é,æ,π,É[]-,³,ê,Ä,ç,Ü,·BCE»[]Ý,ì[]- ,É,æ,è<-
%oÂ,³,ê,Ä,ç,éŽžŠÔ·Ñ^ÈŠO,ìŽžŠÔ,Éf[]fN,ÖfAfNfZfX,·,é•K-v,^a, ,é[]ê[]#,í[]VfXfef€ŠÇ-[]ŽÒ,É^Ë-
Š,μ,Ä[]- ,đ•ïX,μ,Ä,à,ç,Á,Ä,,³/₄,³,ç[]B

647

ſvfXfef€ŠÇ—□ŽÒ,É^Ë—Š,μ,Ä□AŽg—p,·,éfAſſfEſ“fg,đ—LŒø,É,μ,Ä,à,ç,Á,Ä,,¾,³,†□B

648

fŠf. [fg fAfNfZfX, ì“d~b’ , ðŽg, Á, ÄÚ’ ±, μ, Ä, ç, éêë, íAfpfXf [fh, ð•ïX, , é, æ, x
, É< , ß, éf [fbfZ [fW, aŽ © “ @ “ I, É•\Ž |, ³, ê, Ü, · □B

RASDIAL fRf}f“fh, ðŽg, Á, ÄÚ’ ±, μ, Ä, ç, éêë, íAZÿ, ìŽè, É, æ, èfpfXf [fh, ð•ïX, Å, «, Ü, · □B

1 **Ctrl + Alt + Del** fL [, ð%oÿ, μ, Ü, · □B

2 [fpfXf [fh, ð•ïX] , ð‘I’ ð, μA%oæ-É, É•\Ž |, ³, ê, éŽwŽ |, É [, Á, Ä‘€ [, μ, Ü, · □B

,±,lfAjjfEf“fg,í'í'ð,μ,½fhf□fCf““à,Å,Í—LCEø,Å,·,ª□AfŠf,□[fg,©,çflfbfgf□□[fN,ÖfAfNfZfX,·,é,½,ß,lfAfNfZfXCE
,Í—^,!,ç,ê,Ä,ç,Ü,¹,ñ□BfVfXfef€ŠÇ—□ŽÒ,É^È—Š,μ,Ä□AfŠf,□[fg fAfNfZfX,ì<-‰oÂ,ðŽæ“¾,μ,Ä,,¾,¾,ç□B

,Ù,©,lfhf□fCf““à,ÅfŠf,□[fg fAfNfZfX,ì<-‰oÂ,ð—^,!,ç,ê,½fAjjfEf“fg,ðŽ□,Á,Ä,ç,é□é□‡,Í□AZÿ,ìŽè□‡,É□]
,Á,Ä□A,»,lfhf□fCf“,lfAjjfEf“fg,ðŽg,Á,Ä,,¾,¾,ç□B

1 “d~b’ fGf“fgfŠ,ð•Ò□W,μ□A[CE»□Ÿ,lf□□[fU□[-¼,ÆfpfXf□□[fh,ðŽg,κ] f`fFbfN f{fbfNfX,ðflft,É,μ,Ü,·□B

2 f_fCf,,f<,μ,Ü,·□B

3 ŠY“-.,éft□[fU□[-¼□AfpfXf□□[fh□A,“,æ,Ñfhf□fCf“,ðŽw’è,μ,Ü,·□B

- ŽŸ, ì, ç, , , ê, ©, ìĈĖ´^ö, Å□A□Ú´±, Å, «, Ü, ¹, ñ□B
- fŠf, □[fg fAfNfZfX fT□[fo□[,^²<N“ ©, ^³ê, Å, ç, Ü, ¹, ñ□BfVfXfef€ŠÇ—□ŽÒ, É-
à, ç□‡, í, ¹, Å□AfT□[fo□[,^²<N“ ©, ^³ê, Å, ç, é, ©, Ç, x, ©, ðŠm”F, μ, Å, ,^³/₄, ^³, ç□B
- Žg—p, μ, Å, ç, é%ñü, ÉfmfCfY, ^²½, , , -, Ü, ·□Bf, fff€, ì□%Šú’É□M’-“x (bps) , ð
%°°, °□Af_fCf, ,f<, μ¹/₄, μ, Å, ,^³/₄, ^³, ç□B□uf, fff€, ì<@“\, ðŸ’è, , , é□v, ðŽQ□Æ, μ, Å, ,^³/₄, ^³, ç□B
- Žg—p, μ, Å, ç, éf, fff€, ÆfŠf, □[fg fAfNfZfX fT□[fo□[, ìf, fff€
, Æ, í□A’l’ð, μ, ½’É□M’-“x, Å, í□³□í, ÉfłfSfVfG□[fVf‡“ , ð□s, x, ±, Æ, ^², Å, «, Ü, ¹, ñ□Bf, fff€, ì□%Šú’É□M’-“x (bps) , ð
%°°, °□Af_fCf, ,f<, μ¹/₄, μ, Å, ,^³/₄, ^³, ç□B

651

Žg—p,μ,Ä,ç,éf,fff€ (,Ü,½,Í,»,ì'¼,iÚ'±'•'u) ,áfGf%oo[,ð•Ô,μ,Ü,μ,½BfTf| [fg,³,ê,Ä,ç,éf,fff€,ðŽg,Á,Ä,ç
.éê±,íA1 "xf,fff€,ì"dCE¹,ð∅,Á,Ä"dCE¹,ð"ü,ê'¼,μ,Ä,,¾,¾,çBfŠf, [fg fAfNfZfX
fT [fxfX,ðÄ<N" ©,μ,Ä,©,çAf_fCf,,f<,μ'¼,μ,Ä,,¾,¾,çB

fŠf, [fg fAfNfZfX,ÁfTf| [fg,³,ê,Ä,ç,È,çf,fff€,ðŽg,Á,Ä,ç,éê±,íAf,fff€,ì»'çCE³,É-â,ç±,í,¹,Ä,-
,¾,¾,çB,Ç,ìf,fff€,áfTf| [fg,³,ê,Ä,ç,é,©,É,Ä,ç,Ä,íA wWindows NT
fn [fhfEfFfACEÝŠ·çŠfXfgx,ðŽQÆ,μ,Ä,,¾,¾,çB

f,fff€,áfŠf, [fg fAfNfZfX—p,É³,μ,∅¬,³,ê,Ä,ç,é,±,Æ,ðŠm" F,μ,Ä,,¾,¾,çB∅¬,ðŠm" F,·,é•û-@,É,Ä,ç
,Ä,íA uf_fCf,,f<fAfbfv flfbfgf [fN,ðÄ∅¬,·,é∅v,ðŽQÆ,μ,Ä,,¾,¾,çB

Žg—p,μ,Ä,ç,é,fff€ (,Ü,½,Í,»,ì'¼,i□Ú'±'•'u) ,ª□AfŠf,□[fg fAfNfZfX,ìfXfNfŠfVfg ftf@fCf<
(PAD.INF□AMODEM.INF□A,Ü,½,Í SWITCH.INF) ,ì,ç, ,è,É,à<L□q,³,è,Ä,ç,È,çf□fbfZ□[fW,Å%ž“š,μ,Ü,μ,½□B
ftf|□[fg,³,è,Ä,ç,é,fff€,ðŽg,Á,Ä□Ú'±,μ,Ä,ç,é□ê□‡,Í□A1 “xf,fff€
,ì“dCE¹,ð□Ø,Á,Ä“dCE¹,ð“ü,è'¼,μ,Ä,©,ç□Af_fCf,,f<,μ'¼,μ,Ä,,¾,¾,ç□B,»,è,Á,à-â'è,ª%ðCE^,μ,È,ç□ê□‡,Í□A□
%Šú'Ê□M'¬“x,ð%ºº,º,Ä□Ú'±,μ,Ä,Ý,Ä,,¾,¾,ç□B□uf,fff€,ì<@“\,ð□Ý'è,-,é□v,ðŽQ□Æ,μ,Ä,,¾,¾,ç□B
ftf|□[fg,³,è,Ä,ç,È,çf,fff€,ðŽg,Á,Ä□Ú'±,μ,Ä,ç,é□ê□‡,Í□A•Ô,³,è,½%ž“š,ª“K□Ø,ÈfXfNfŠfVfg
ftf@fCf<“à,É<L□q,³,è,Ä,ç,é,©,Ç,κ,©,ðŠm”F,μ,Ä,,¾,¾,ç□B□uf,fff€,ìfXfNfŠfVfg ftf@fCf<,ÌŠT—
v□v,ðŽQ□Æ,μ,Ä,,¾,¾,ç□B
fŠf,□[fg fAfNfZfX,ìfXfNfŠfVfg ftf@fCf<,Í□Asystemroot\System32\RAS fffBfCEfNfgfŠ,É, ,è,Ü,·□B

653

fŠf. [fg fAfNfZfX, i\ -ftf@fCf<, i 1 ,Ä, É-³CEø, Èî•ň, ŠÜ, Ü, ê, Ä, ç, é%oÄ" \«, a, , è, Ü, · □B, ±, ì-â'è, ð
%oðCE^, ·, é□Ä, àŠÈ'P, È•û-@, í□AfŠf, [fg fAfNfZfX, i□ÄfCf" fXfg□[f<, Ä, ·□B

fŠf. [fg fAfNfZfX, ÄfTf| [fg, ³, ê, Ä, ç, È, çf, fff€, ðŽg, Ä, Ä, ç, éê±, í□AfTf| [fg, ³, ê, Ä, ç, éf, fff€
, ÉCEðŠ·, ·, é, ©□A, Ü, ½, íCE»Ý, ìf, fff€, ðŽg—p, Ä, <, é, æ, x, Éf, fff€ fXfNfŠfVfg, ð□C□³, μ, Ä, , ¾, ¾, ç□Bf, fff€
fXfNfŠfVfg, ð□C□³, ·, é•û-@, É, Ä, ç, Ä, í□A□uf, fff€, ìfXfNfŠfVfg_ftf@fCf<, ÌŠT—v□v, ðŽQ□Æ, μ, Ä, , ¾, ¾, ç□B

fŠf. [fg fAfNfZfX, ìfXfNfŠfVfg_ftf@fCf< (PAD.INF□AMODEM.INF□A, ", æ, Ñ SWITCH.INF) , í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ, É, , è, Ü, ·□B

fŠf. [fg fAfNfZfX, \ -ftf@fCf<, ì 1 ,Ä, É-³CEø, Èî•ň, ŠÜ, Ü, è, Ä, ç, é%oÄ" \ «, a, , è, Ü, · □B, ±, ì-â'è, ð
%oðCE^, ·, é□Ä, àŠÈ'P, È•û-@, í□AfŠf, [fg fAfNfZfX, ì□ÄfCf" fXfg□[f<, Å, ·□B

fŠf. [fg fAfNfZfX, ÄfTf| [fg, ³, è, Ä, ç, È, çf, fff€, ðŽg, Ä, Ä, ç, éê±, í□AfTf| [fg, ³, è, Ä, ç, éf, fff€
, ÉCEðŠ·, ·, é, ©□A, Ü, ½, íCE»Ý, ìf, fff€, ðŽg—p, Å, <, é, æ, x, Éf, fff€ fXfNfŠfVfg, ð□C□³, µ, Ä, , ¾, ¾, ç□Bf, fff€
fXfNfŠfVfg, ð□C□³, ·, é•û-@, É, Ä, ç, Ä, í□A□uf, fff€, ìfXfNfŠfVfg_ftf@fCf<, ìŠT—v□v, ðŽQ□Æ, µ, Ä, , ¾, ¾, ç□B

fŠf. [fg fAfNfZfX, ìfXfNfŠfVfg_ftf@fCf< (PAD.INF□AMODEM.INF□A, ", æ, Ń SWITCH.INF) , í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ, É, , è, Ü, ·□B

655

fŠf. [fg fAfNfZfX, i\ -ftf@fCf<, i 1 ,Ä, É-³CEø, Èî•ň, ŠÜ, Ü, ê, Ä, ç, é%oÄ" \«, a, , è, Ü, · □B, ±, ì-â'è, ð
%oðCE^, ·, é□Ä, àŠÈ'P, È•û-@, í□AfŠf, [fg fAfNfZfX, i□ÄfCf" fXfg□[f<, Å, ·□B

fŠf. [fg fAfNfZfX, ÄfTf| [fg, ³, ê, Ä, ç, È, çf, fff€, ðŽg, Ä, Ä, ç, éê±, í□AfTf| [fg, ³, ê, Ä, ç, éf, fff€
, ÉCEðŠ·, ·, é, ©□A, Ü, ½, íCE»Ý, ìf, fff€, ðŽg—p, Å, <, é, æ, x, Éf, fff€ fXfNfŠfVfg, ð□C□³, μ, Ä, , ¾, ¾, ç□Bf, fff€
fXfNfŠfVfg, ð□C□³, ·, é•û-@, É, Ä, ç, Ä, í□A□uf, fff€, ìfXfNfŠfVfg_ftf@fCf<, ÌŠT—v□v, ðŽQ□Æ, μ, Ä, , ¾, ¾, ç□B

fŠf. [fg fAfNfZfX, ìfXfNfŠfVfg_ftf@fCf< (PAD.INF□AMODEM.INF□A, ", æ, Ñ SWITCH.INF) , í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ, É, , è, Ü, ·□B

fŠf. [fg fAfNfZfX, i\ -ftf@fCf<, i 1 ,Ä, É-³CEø, Èî•ň, ²ŠÜ, Ü, è, Ä, ç, é%oÄ" \«, a, , è, Ü, · □B, ±, ì-â'è, ð
%oðCE^, ·, é□Ä, àŠÈ'P, È•û-@, í□AfŠf, [fg fAfNfZfX, i□ÄfCf" fXfg□[f<, Å, ·□B

fŠf. [fg fAfNfZfX, ÄfTf| [fg, ³, è, Ä, ç, È, çf, fff€, ðŽg, Ä, Ä, ç, éê±, í□AfTf| [fg, ³, è, Ä, ç, éf, fff€
, ÉCEðŠ·, ·, é, ©□A, Ü, ½, íCE»Ý, ìf, fff€, ðŽg—p, Å, <, é, æ, x, Éf, fff€ fXfNfŠfVfg, ð□C□³, μ, Ä, , ¾, ¾, ç□Bf, fff€
fXfNfŠfVfg, ð□C□³, ·, é•û-@, É, Ä, ç, Ä, í□A□uf, fff€, ìfXfNfŠfVfg ftf@fCf<, ìŠT—v□v, ðŽQ□Æ, μ, Ä, , ¾, ¾, ç□B

fŠf. [fg fAfNfZfX, ìfXfNfŠfVfg ftf@fCf< (PAD.INF□AMODEM.INF□A, " , æ, Ń SWITCH.INF) , í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ, É, , è, Ü, ·□B

657

fŠf. [fg fAfNfZfX, i\ -ftf@fCf<, i 1 ,Ä, É-³CEø, Èî•ň, ŠÜ, Ü, ê, Ä, ç, é%oÄ" \«, a, , è, Ü, ·□B, ±, ì-â'è, ð
%oðCE^, ·, é□Ä, àŠÈ'P, È•û-@, í□AfŠf, [fg fAfNfZfX, i□ÄfCf" fXfg□[f<, Å, ·□B

fŠf. [fg fAfNfZfX, ÄfTf| [fg, ³, ê, Ä, ç, È, çf, fff€, ðŽg, Ä, Ä, ç, éê±, í□AfTf| [fg, ³, ê, Ä, ç, éf, fff€
, ÉCEðŠ·, ·, é, ©□A, Ü, ½, íCE»Ý, ìf, fff€, ðŽg—p, Å, <, é, æ, x, Éf, fff€ fXfNfŠfVfg, ð□C□³, μ, Ä, , ¾, ¾, ç□Bf, fff€
fXfNfŠfVfg, ð□C□³, ·, é•û-@, É, Ä, ç, Ä, í□A□uf, fff€, ìfXfNfŠfVfg ftf@fCf<, ÌŠT—v□v, ðŽQ□Æ, μ, Ä, , ¾, ¾, ç□B

fŠf. [fg fAfNfZfX, ìfXfNfŠfVfg ftf@fCf< (PAD.INF□AMODEM.INF□A, ", æ, Ñ SWITCH.INF) , í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ, É, , è, Ü, ·□B

fŠf. [fg fAfNfZfX, \ -ftf@fCf<, ì 1 ,Ä, É-³CEø, Èî•ň, ŠÜ, Ü, ê, Ä, ç, é%oÄ" \ «, a, , è, Ü, . □B, ±, ì-â'è, ð
%oðCE^, ., é□Ä, àŠÈ'P, È•û-@, í□AfŠf, [fg fAfNfZfX, ì□ÄfCf" fXfg□[f<, Ä, . □B

fŠf. [fg fAfNfZfX, ÄfTf| [fg, ³, ê, Ä, ç, È, çf, fff€, ðŽg, Ä, Ä, ç, éê±, í□AfTf| [fg, ³, ê, Ä, ç, éf, fff€
, ÉCEðŠ, ., é, ©□A, Ü, ½, íCE»Ý, ìf, fff€, ðŽg—p, Ä, <, é, æ, x, Éf, fff€ fXfNfŠfVfg, ð□C□³, µ, Ä, , ¾, ¾, ç□Bf, fff€
fXfNfŠfVfg, ð□C□³, ., é•û-@, É, Ä, ç, Ä, í□A□uf, fff€, ìfXfNfŠfVfg_ftf@fCf<, ìŠT—v□v, ðŽQ□Æ, µ, Ä, , ¾, ¾, ç□B

fŠf. [fg fAfNfZfX, ìfXfNfŠfVfg_ftf@fCf< (PAD.INF□AMODEM.INF□A, " , æ, Ń SWITCH.INF) , í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ, É, , è, Ü, . □B

fŠf. [fg fAfNfZfX, i\ -ftf@fCf<, i 1 ,Ä, É-³CEø, Èî•ň, ŠÜ, Ü, è, Ä, ç, é%oÄ" \«, a, , è, Ü, · □B, ±, ì-â'è, ð
%oðCE^, ·, é□Ä, àŠÈ'P, È•û-@, í□AfŠf, [fg fAfNfZfX, i□ÄfCf" fXfg□[f<, Å, ·□B

fŠf. [fg fAfNfZfX, ÄfTf| [fg, ³, è, Ä, ç, È, çf, fff€, ðŽg, Ä, Ä, ç, éê±, í□AfTf| [fg, ³, è, Ä, ç, éf, fff€
, ÉCEðŠ·, ·, é, ©□A, Ü, ½, íCE»Ý, ìf, fff€, ðŽg—p, Å, <, é, æ, x, Éf, fff€ fXfNfŠfVfg, ð□C□³, µ, Ä, , ¾, ¾, ç□Bf, fff€
fXfNfŠfVfg, ð□C□³, ·, é•û-@, É, Ä, ç, Ä, í□A□uf, fff€, ìfXfNfŠfVfg_ftf@fCf<, ìŠT—v□v, ðŽQ□Æ, µ, Ä, , ¾, ¾, ç□B

fŠf. [fg fAfNfZfX, ìfXfNfŠfVfg_ftf@fCf< (PAD.INF□AMODEM.INF□A, ", æ, Ń SWITCH.INF) , í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ, É, , è, Ü, ·□B

fŠf. [fg fAfNfZfX, i\ -ftf@fCf<, i 1 ,Ä, É-³CEø, Èî•ň, ŠÜ, Ü, ê, Ä, ç, é%oÄ" \«, a, , è, Ü, · □B, ±, ì-â'è, ð
%oðCE^, ·, é□Ä, àŠÈ'P, È•û-@, í□AfŠf, [fg fAfNfZfX, i□ÄfCf" fXfg□[f<, Ä, ·□B

fŠf. [fg fAfNfZfX, ÄfTf| [fg, ³, ê, Ä, ç, È, çf, fff€, ðŽg, Ä, Ä, ç, éê±, í□AfTf| [fg, ³, ê, Ä, ç, éf, fff€
, ÉCEðŠ·, ·, é, ©□A, Ü, ½, íCE»Ý, ìf, fff€, ðŽg—p, Ä, <, é, æ, x, Éf, fff€ fXfNfŠfVfg, ð□C□³, μ, Ä, , ¾, ¾, ç□Bf, fff€
fXfNfŠfVfg, ð□C□³, ·, é•û-@, É, Ä, ç, Ä, í□A□uf, fff€, ìfXfNfŠfVfg_ftf@fCf<, ÌŠT—v□v, ðŽQ□Æ, μ, Ä, , ¾, ¾, ç□B

fŠf. [fg fAfNfZfX, ìfXfNfŠfVfg_ftf@fCf< (PAD.INF□AMODEM.INF□A, ", æ, Ñ SWITCH.INF) , í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ, É, , è, Ü, ·□B

661

fŠf. [fg fAfNfZfX, \ -ftf@fCf<, ì 1 ,Ä, É-³CEø, Èî•ň, ŠÜ, Ü, è, Ä, ç, é%oÄ" \ «, a, , è, Ü, · □B, ±, ì-â'è, ð
%oðCE^, ·, é□Ä, àŠÈ'P, È•û-@, í□AfŠf, [fg fAfNfZfX, ì□ÄfCf" fXfg□[f<, Ä, ·□B

fŠf. [fg fAfNfZfX, ÄfTf| [fg, ³, è, Ä, ç, È, çf, fff€, ðŽg, Ä, Ä, ç, éê±, í□AfTf| [fg, ³, è, Ä, ç, éf, fff€
, ÉCEðŠ·, ·, é, ©□A, Ü, ½, íCE»Ý, ìf, fff€, ðŽg—p, Ä, <, é, æ, x, Éf, fff€ fXfNfŠfVfg, ð□C□³, µ, Ä, , ¾, ¾, ç□Bf, fff€
fXfNfŠfVfg, ð□C□³, ·, é•û-@, É, Ä, ç, Ä, í□A□uf, fff€, ìfXfNfŠfVfg_ftf@fCf<, ìŠT—v□v, ðŽQ□Æ, µ, Ä, , ¾, ¾, ç□B

fŠf. [fg fAfNfZfX, ìfXfNfŠfVfg_ftf@fCf< (PAD.INF□AMODEM.INF□A, ", æ, Ń SWITCH.INF) , í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ, É, , è, Ü, ·□B

fŠf.[fg fAfNfZfX,ì\[-ftf@fCf<,ì 1 ,Â,É-³CEø,Èî•ň,ªŠÜ,Ü,ê,Ä,ç,é%oÂ"\"«,ª, ,è,Ü,·□B,±,ì-â'è,ð
%oðCE^,·,é□À,àŠÈ'P,È•û-@,í□AfŠf.[fg fAfNfZfX,ì□ÄfCf"fxfg□[f<,Â,·□B

fŠf.[fg fAfNfZfX,ÄfTf|□[fg,³,ê,Ä,ç,È,çf,fff€,ðŽg,Á,Ä,ç,éê±,í□AfTf|□[fg,³,ê,Ä,ç,é,fff€
,ÉCEðŠ·,·,é,©□A,Ü,½,ÍCE»Ý,ìf,fff€,ðŽg—p,Â,«,é,æ,ª,Éf,fff€ fxNfŠfVfg,ð□C□³,μ,Ä,,¾,¾,ç□Bf,fff€
fxNfŠfVfg,ð□C□³,·,é•û-@,É,Â,ç,Ä,í□A□uf,fff€,ìfxNfŠfVfg_ftf@fCf<,ìŠT—v□v,ðŽQ□Æ,μ,Ä,,¾,¾,ç□B

fŠf.[fg fAfNfZfX,ìfxNfŠfVfg_ftf@fCf< (PAD.INF□AMODEM.INF□A,“,æ,Ñ SWITCH.INF) ,í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ,É, ,è,Ü,·□B

fŠf.[fg fAfNfZfX,ì\ -ftf@fCf<,ì 1 ,Ă,É-³CEø,Èî•ň,ŠÜ,Ü,ê,Ă,ç,é%oĂ"\"«,ª, ,è,Ü,·□B,±,ì-â'è,ð
%oðCE^,·,é□Ă,àŠÈ'P,È•û-@,í□AfŠf.[fg fAfNfZfX,ì□ĂfCf" fXfg□[f<,Ă,·□B

fŠf.[fg fAfNfZfX,ĂfTf|□[fg,³,ê,Ă,ç,È,çf,fff€,ðŽg,Ă,Ă,ç,é□ê□‡,í□AfTf|□[fg,³,ê,Ă,ç,é,fff€
,ÉCEðŠ·,·,é,©□A,Ü,½,ÍCE»□Ý,ìf,fff€,ðŽg—p,Ă,«,é,æ,¸,Éf,fff€ fXfNfŠfVfg,ð□C□³,μ,Ă,,¾,¾,ç□Bf,fff€
fXfNfŠfVfg,ð□C□³,·,é•û-@,É,Ă,ç,Ă,í□A□uf,fff€,ìfXfNfŠfVfg_ftf@fCf<,ìŠT—v□v,ðŽQ□Æ,μ,Ă,,¾,¾,ç□B

fŠf.[fg fAfNfZfX,ìfXfNfŠfVfg_ftf@fCf< (PAD.INF□AMODEM.INF□A,“,æ,Ň SWITCH.INF) ,í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ,É, ,è,Ü,·□B

∫VfXfef€ ,lf□f,fŠ,ª'« ,è,Ü,¹,ñ□B•s—v,ÈfAfvfŠfP□[fVf†f“,đ□I—¹,μ□A,à,π^ê“xf_fCf,,f<,μ,Ä,,¾,³,¢□B

Šù,É,Ù,©,ìú'±,ì,½,ß,Éf|[]fg,ªŽg,í,ê,Ä,ç,éê±,íA,»ìú'±
 ,ðø'f,·,é,©A,Û,½,ÍGf“fgš,ð•ÒW,µ,ÄA,Ù,©,ì'ÊMf|[]fg,ðŽg,æ,æ,É,µ,Ä,,¾,¾,çB
 f|[]fg,ªŽg,í,ê,Ä,ç,È,çê±,íAfšf,[]fg fAfNfZfX,ÉŽg,xf|[]fg,ðf_Cf,,f< fAfEfg—p,ÉÄ\¬,µ,Ä,-
 ,¾,¾,çB'€ìŽè±,É,Ä,ç,Ä,íAuf_fCf,,f<fAfbfv flfbgf[]fN,ðÄ\¬,·,év,ðŽQÆ,µ,Ä,,¾,¾,çB

- Žg—p,μ,Ä,ç,éf,fff€ (,Ü,½,Í,»,ì'¼,i□Ú'±'•'u) ,ª□AZŽÿ,ì,ç,,é,©,ì—□—R,Å%ž“š,đ•Ô,μ,Ü,¹,ñ□B
- f,fff€,ì“dCE¹,ª□Ø,é,Ä,ç,Ü,·□B
- f,fff€,ªfRf“fsf...□[f^,ÉŠmŽÀ,É□Ú'±,³,é,Ä,ç,Ü,¹,ñ□BfP□[fuf<,ªf,fff€,É,àfRf“fsf...□[f^,É,àŠmŽÀ,É□Ú'±,³,é,Ä,ç,é,±,Æ,đŠm“F,μ,Ä,,^¾,^¾,ç□B
- fVfŠfAf< fP□[fuf<,ª□AfŠf,□[fg fAfNfZfX,ÅŽg,ª,½,ß,É•K—v,ÈŽd—l,đ-ž,½,μ,Ä,ç,Ü,¹,ñ□B□ufP□[fuf<,ì—
vCE□□v,đŽQ□Æ,μ,Ä,,^¾,^¾,ç□B
- f,fff€,ªCEë“®□ì,μ,Ü,μ,½□B1 “xf,fff€,ì“dCE¹,đ□Ø,è□A20 •bŠÔ`Ò,Á,Ä,©,ç□Af,fff€
- ,ì“dCE¹,đ“ü,é'¼,μ,Ä,,^¾,^¾,ç□B

fŠf. [fg fAfNfZfX, \ -ftf@fCf<, ì 1 ,Ä, É-³CEø, Èî•ň, ŠÜ, Ü, ê, Ä, ç, é%oÄ" \ «, a, , è, Ü, · □B, ±, ì-â'è, ð
%oðCE^, ·, é□Ä, àŠÈ'P, È•û-@, í□AfŠf, [fg fAfNfZfX, ì□ÄfCf" fXfg□[f<, Å, ·□B

fŠf. [fg fAfNfZfX, ÄfTf| [fg, ³, ê, Ä, ç, È, çf, fff€, ðŽg, Ä, Ä, ç, éê±, í□AfTf| [fg, ³, ê, Ä, ç, éf, fff€
, ÉCEðŠ·, ·, é, ©□A, Ü, ½, íCE»Ý, ìf, fff€, ðŽg—p, Å, <, é, æ, x, Éf, fff€ fXfNfŠfVfg, ð□C□³, μ, Ä, , ¾, ¾, ç□Bf, fff€
fXfNfŠfVfg, ð□C□³, ·, é•û-@, É, Ä, ç, Ä, í□A□uf, fff€, ìfXfNfŠfVfg_ftf@fCf<, ìŠT—v□v, ðŽQ□Æ, μ, Ä, , ¾, ¾, ç□B

fŠf. [fg fAfNfZfX, ìfXfNfŠfVfg_ftf@fCf< (PAD.INF□AMODEM.INF□A, ", æ, Ń SWITCH.INF) , í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ, É, , è, Ü, ·□B

,à,π^è“x”^,¶fGf“fgfŠ,Éf_fCf,,f<,μ,Ä,,³/₄,³,ç□B,»,ê,Å,à,±,ìf□fbfZ□[fW,^a•\Ž|,³,é,é□ê□#,í□Af,fff€,ì□
 %Šú'Ê□M'→“x,ð%°°,°□Af,fff€,ìŠg'£<@“\,ðfjft,É,μ,Ä,,³/₄,³,ç□B□uf,fff€,ì<@“\,ð□Y'è,-,é□v,ðŽQ□Æ,μ,Ä,-
³/₄,³,ç□B,»,ê,Å,à-â'è,^a%ðCE^,μ,È,ç□ê□#,í□AfVfXfef€ŠÇ—□ŽÒ,É-â,ç□#,í,¹,Ä,,³/₄,³,ç□B
 Žè“®,Åf_fCf,,f<,μ,Ä,ç,é□ê□#,í□A□Ú'±,³,ê,Ä,ç,é,±,Æ,ðŠm”F,μ,Ä,©,ç□A[Š®—¹],ðfNfŠfbfN,μ,Ä,,³/₄,³,ç□B

fŠf. [fg fAfNfZfX, i\ -ftf@fCf<, i 1 ,Ä, É-³CEø, Èî•ň, ŠÜ, Ü, è, Ä, ç, é%oÄ" \«, a, , è, Ü, . □B, ±, ì-â'è, ð
%oðCE^, ., é□Ä, àŠÈ'P, È•û-@, í□AfŠf, [fg fAfNfZfX, i□ÄfCf" fXfg□[f<, Ä, . □B

fŠf. [fg fAfNfZfX, ÄfTf|□[fg, ³, è, Ä, ç, È, çf, fff€, ðŽg, Ä, Ä, ç, éê±, í□AfTf|□[fg, ³, è, Ä, ç, éf, fff€
, ÉCEðŠ, ., é, ©□A, Ü, ½, íCE»Ý, ìf, fff€, ðŽg—p, Ä, <, é, æ, x, Éf, fff€ fXfNfŠfVfg, ð□C□³, µ, Ä, , ¾, ¾, ç□Bf, fff€
fXfNfŠfVfg, ð□C□³, ., é•û-@, É, Ä, ç, Ä, í□A□uf, fff€, ìfXfNfŠfVfg_ftf@fCf<, ÌŠT—v□v, ðŽQ□Æ, µ, Ä, , ¾, ¾, ç□B

fŠf. [fg fAfNfZfX, ìfXfNfŠfVfg_ftf@fCf< (PAD.INF□AMODEM.INF□A, " , æ, Ń SWITCH.INF) , í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ, É, , è, Ü, . □B

670

fŠf. [fg fAfNfZfX, \ -ftf@fCf<, ì 1 ,Ä, É-³CEø, Èî•ñ, ŠÜ, Ü, è, Ä, ç, é%oÄ" \ «, a, , è, Ü, · □B, ±, ì-â'è, ð
%oðCE^, ·, é□Ä, àŠÈ'P, È•û-@, í□AfŠf, [fg fAfNfZfX, ì□ÄfCf" fXfg□[f<, Ä, ·□B

fŠf. [fg fAfNfZfX, ÄfTf| [fg, ³, è, Ä, ç, È, çf, fff€, ðŽg, Ä, Ä, ç, éê±, í□AfTf| [fg, ³, è, Ä, ç, éf, fff€
, ÉCEðŠ·, ·, é, ©□A, Ü, ½, íCE»Ý, ìf, fff€, ðŽg—p, Ä, <, é, æ, x, Éf, fff€ fXfNfŠfVfg, ð□C□³, µ, Ä, , ¾, ¾, ç□Bf, fff€
fXfNfŠfVfg, ð□C□³, ·, é•û-@, É, Ä, ç, Ä, í□A□uf, fff€, ìfXfNfŠfVfg_ftf@fCf<, ìŠT—v□v, ðŽQ□Æ, µ, Ä, , ¾, ¾, ç□B

fŠf. [fg fAfNfZfX, ìfXfNfŠfVfg_ftf@fCf< (PAD.INF□AMODEM.INF□A, ", æ, Ń SWITCH.INF) , í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ, É, , è, Ü, ·□B

671

fŠf. [fg fAfNfZfX, \ -ftf@fCf<, ì 1 ,Ä, É-³CEø, Èî•ň, ŠÜ, Ü, è, Ä, ç, é%oÄ" \ «, a, , è, Ü, · □B, ±, ì-â'è, ð
%oðCE^, ·, é□Ä, àŠÈ'P, È•û-@, í□AfŠf, [fg fAfNfZfX, ì□ÄfCf" fXfg□[f<, Ä, ·□B

fŠf. [fg fAfNfZfX, ÄfTf| [fg, ³, è, Ä, ç, È, çf, fff€, ðŽg, Ä, Ä, ç, éê±, í□AfTf| [fg, ³, è, Ä, ç, éf, fff€
, ÉCEðŠ·, ·, é, ©□A, Ü, ½, íCE»Ý, ìf, fff€, ðŽg—p, Ä, <, é, æ, x, Éf, fff€ fXfNfŠfVfg, ð□C□³, µ, Ä, , ¾, ¾, ç□Bf, fff€
fXfNfŠfVfg, ð□C□³, ·, é•û-@, É, Ä, ç, Ä, í□A□uf, fff€, ìfXfNfŠfVfg_ftf@fCf<, ìŠT—v□v, ðŽQ□Æ, µ, Ä, , ¾, ¾, ç□B

fŠf. [fg fAfNfZfX, ìfXfNfŠfVfg_ftf@fCf< (PAD.INF□AMODEM.INF□A, ", æ, Ń SWITCH.INF) , í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ, É, , è, Ü, ·□B

fŠf. [fg fAfNfZfX, i\ -ftf@fCf<, i 1 ,Ä, É-³CEø, Èî•ň, ŠÜ, Ü, è, Ä, ç, é%oÄ" \«, a, , è, Ü, · □B, ±, ì-â'è, ð
%oðCE^, ·, é□Ä, àŠÈ'P, È•û-@, í□AfŠf, [fg fAfNfZfX, i□ÄfCf" fXfg□[f<, Å, ·□B

fŠf. [fg fAfNfZfX, ÄfTf| [fg, ³, è, Ä, ç, È, çf, fff€, ðŽg, Ä, Ä, ç, éê±, í□AfTf| [fg, ³, è, Ä, ç, éf, fff€
, ÉCEðŠ·, ·, é, ©□A, Ü, ½, íCE»Ý, ìf, fff€, ðŽg—p, Å, <, é, æ, x, Éf, fff€ fXfNfŠfVfg, ð□C□³, µ, Ä, , ¾, ¾, ç□Bf, fff€
fXfNfŠfVfg, ð□C□³, ·, é•û-@, É, Ä, ç, Ä, í□A□uf, fff€, ìfXfNfŠfVfg_ftf@fCf<, ÌŠT—v□v, ðŽQ□Æ, µ, Ä, , ¾, ¾, ç□B

fŠf. [fg fAfNfZfX, ìfXfNfŠfVfg_ftf@fCf< (PAD.INF□AMODEM.INF□A, ", æ, Ń SWITCH.INF) , í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ, É, , è, Ü, ·□B

673

fŠf. [fg fAfNfZfX, i\ -ftf@fCf<, i 1 ,Ä, É-³CEø, Èî•ñ, ŠÜ, Ü, è, Ä, ç, é%oÄ" \«, a, , è, Ü, . □B, ±, ì-â'è, ð
%oðCE^, ., é□Ä, àŠÈ'P, È•û-@, í□AfŠf, [fg fAfNfZfX, i□ÄfCf" fXfg□[f<, Ä, . □B

fŠf. [fg fAfNfZfX, ÄfTf| [fg, ³, è, Ä, ç, È, çf, fff€, ðŽg, Ä, Ä, ç, éê±, í□AfTf| [fg, ³, è, Ä, ç, éf, fff€
, ÉCEðŠ·, ., é, ©□A, Ü, ½, íCE»Ý, ìf, fff€, ðŽg—p, Ä, <, é, æ, x, Éf, fff€ fXfNfŠfVfg, ð□C□³, µ, Ä, , ¾, ¾, ç□Bf, fff€
fXfNfŠfVfg, ð□C□³, ., é•û-@, É, Ä, ç, Ä, í□A□uf, fff€, ìfXfNfŠfVfg_ftf@fCf<, ìŠT—v□v, ðŽQ□Æ, µ, Ä, , ¾, ¾, ç□B

fŠf. [fg fAfNfZfX, ìfXfNfŠfVfg_ftf@fCf< (PAD.INF□AMODEM.INF□A, " , æ, Ń SWITCH.INF) , í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ, É, , è, Ü, . □B

fŠf. [fg fAfNfZfX, i\ -ftf@fCf<, i 1 ,Ä, É-³CEø, Èî•ň, ŠÜ, Ü, è, Ä, ç, é%oÄ" \«, a, , è, Ü, . □B, ±, ì-â'è, ð
%oðCE^, ., é□Ä, àŠÈ'P, È•û-@, í□AfŠf, [fg fAfNfZfX, i□ÄfCf" fXfg□[f<, Å, . □B

fŠf. [fg fAfNfZfX, ÄfTf|□[fg, ³, è, Ä, ç, È, çf, fff€, ðŽg, Ä, Ä, ç, éê±, í□AfTf|□[fg, ³, è, Ä, ç, éf, fff€
, ÉCEðŠ·, ., é, ©□A, Ü, ½, íCE»Ý, ìf, fff€, ðŽg—p, Å, <, é, æ, x, Éf, fff€ fXfNfŠfVfg, ð□C□³, µ, Ä, , ¾, ¾, ç□Bf, fff€
fXfNfŠfVfg, ð□C□³, ., é•û-@, É, Ä, ç, Ä, í□A□uf, fff€, ìfXfNfŠfVfg_ftf@fCf<, ÌŠT—v□v, ðŽQ□Æ, µ, Ä, , ¾, ¾, ç□B

fŠf. [fg fAfNfZfX, ìfXfNfŠfVfg_ftf@fCf< (PAD.INF□AMODEM.INF□A, " , æ, Ń SWITCH.INF) , í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ, É, , è, Ü, . □B

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fŠf. [fg fAfNfZfX, \ -ftf@fCf<, ì 1 ,Ä, É-³CEø, Èî•ň, ŠÜ, Ü, è, Ä, ç, é%oÄ" \ «, a, , è, Ü, · □B, ±, ì-â'è, ð
%oðCE^, ·, é□Ä, àŠÈ'P, È•û-@, í□AfŠf, [fg fAfNfZfX, ì□ÄfCf" fXfg□[f<, Ä, ·□B

fŠf. [fg fAfNfZfX, ÄfTf| [fg, ³, è, Ä, ç, È, çf, fff€, ðŽg, Ä, Ä, ç, éê±, í□AfTf| [fg, ³, è, Ä, ç, éf, fff€
, ÉCEðŠ·, ·, é, ©□A, Ü, ½, íCE»Ý, ìf, fff€, ðŽg—p, Ä, <, é, æ, x, Éf, fff€ fXfNfŠfVfg, ð□C□³, µ, Ä, , ¾, ¾, ç□Bf, fff€
fXfNfŠfVfg, ð□C□³, ·, é•û-@, É, Ä, ç, Ä, í□A□uf, fff€, ìfXfNfŠfVfg_ftf@fCf<, ìŠT—v□v, ðŽQ□Æ, µ, Ä, , ¾, ¾, ç□B

fŠf. [fg fAfNfZfX, ìfXfNfŠfVfg_ftf@fCf< (PAD.INF□AMODEM.INF□A, ", æ, Ń SWITCH.INF) , í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ, É, , è, Ü, ·□B

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“ , ¶ ” Ô ¢ † , É , à , ¢ ^ è “ x f _ f C f , , f < , µ , Ä , , ¾ , ¾ , ¢ ¢ B [f † ¢ [f U ¢ ¢ [¢ ¢ Ý ’ è] , ì [f _ f C f , , f <] f ^ f u , ð Ž g , ¢
, Æ ¢ A Ž © “ ® “ † , É f Š f _ f C f , , f < , · , é , æ , ¢ , É ¢ Ý ’ è , Å , « , Ü , · ¢ B ¢ u f Š f _ f C f , , f < , ì ¢ ¢ Ý ’ è ¢ v , ð Ž Q ¢ Æ , µ , Ä , , ¾ , ¾ , ¢ ¢ B

“d”bü,af,fff€,lfPfbfg,É³,μ,Ú’±,³,ê,Ä,ç,é,±,Æ,đŠm”F,μ,Ä,,¾,¾,çB,Ü,½A“ÁŽê,ÈfAfNfZfX”Ôt,ª•K—
v,Èê±,íA,»,lfAfNfZfX”Ôt,à’Ç%Á,μ,Ä, ,é,±,Æ,đŠm”F,μ,Ä,,¾,¾,çB,½,Æ,í,íAŠOü”-
M,.,é,½,ß,ÉÚ“ª”Ôt 9 ,Æff“f},ª•K—v,Èê±,È,Ç,ª, ,è,Ü,· (—áF 9,555-8181)B

681

fŠf. [fg fAfNfZfX, i\ -ftf@fCf<, i 1 ,Ä, É-³CEø, Èî•ñ, ŠÜ, Ü, è, Ä, ç, é%oÄ" \«, a, , è, Ü, · □B, ±, ì-â'è, ð
%oðCE^, ·, é□Ä, àŠÈ'P, È•û-@, í□AfŠf, [fg fAfNfZfX, i□ÄfCf" fXfg□[f<, Ä, ·□B

fŠf. [fg fAfNfZfX, ÄfTf| [fg, ³, è, Ä, ç, È, çf, fff€, ðŽg, Ä, Ä, ç, éê±, í□AfTf| [fg, ³, è, Ä, ç, éf, fff€
, ÉCEðŠ·, ·, é, ©□A, Ü, ½, íCE»Ý, ìf, fff€, ðŽg—p, Ä, <, é, æ, x, Éf, fff€ fXfNfŠfVfg, ð□C□³, µ, Ä, , ¾, ¾, ç□Bf, fff€
fXfNfŠfVfg, ð□C□³, ·, é•û-@, É, Ä, ç, Ä, í□A□uf, fff€, ìfXfNfŠfVfg_ftf@fCf<, ÌŠT—v□v, ðŽQ□Æ, µ, Ä, , ¾, ¾, ç□B

fŠf. [fg fAfNfZfX, ìfXfNfŠfVfg_ftf@fCf< (PAD.INF□AMODEM.INF□A, ", æ, Ń SWITCH.INF) , í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ, É, , è, Ü, ·□B

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NT ,İfCfxf"fg f□fO,ðŽQ□Æ,μ,ÄCEx□□,Ü,½,İfGf%o□l,İ□Ú□x,ð'²,x,Ä,,³/₄,³,ç□B

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,±,İfGf%oo[,İA'Ê[í,İ6<μ,Å,Í"□¶,μ,Ü,¹,ñ□BfRf"fsf...[f^,ð□Ä<N"® ,μ,Ä□AfGf%oo[,ª"□¶,·,é'O,É□s,Á,½□\
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[]¬,İ•İ[]X,³,·,x,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm"F,μ,Ä,,³/4,³,ç[]BfGf%o[]l,³%oðCE^,³,ê,È,ç[]ê[]‡,Í[]AWindows
NT ,İfCfxf"fg f[]fO,ðŽQ[]Æ,μ,ÄCEx[]Ü,½,İfGf%o[]l,İÜ[]x,ð'²,x,Ä,,³/4,³,ç[]B

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, ê, ç, ì□î•ñ, ³□Šm, É, í, ©, ç, È, ç□ê□#, í□AfVfXfefe€ŠÇ—□ŽÒ, É-â, ç□#, í, ¹, Ä,, ¾, ³, ç□B

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¼, ÆfpfXf□□fh, ð" F□Ø, μ, æ, x, Æ, μ, Ü, ·□B

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- f,fff€,ì“dCE¹,ª□Ø,é,Ä,ç,Ü,·□B
- f,fff€,ªfRf“fsf...□[f^,ÉŠmŽÀ,É□Ú'±,³,é,Ä,ç,Ü,¹,ñ□BfP□[fuf<,ªf,fff€,É,àfRf“fsf...□[f^,É,àŠmŽÀ,É□Ú'±³,é,Ä,ç,é,±,Æ,đŠm“F,μ,Ä,,¾,³,ç□B
- fVfŠfAf< fP□[fuf<,ª□AfŠf,□[fg fAfNfZfX,ÅŽg,ª,½,ß,É•K—v,ÈŽd—l,đ-ž,½,μ,Ä,ç,Ü,¹,ñ□B□ufP□[fuf<,ì—vCE□□v,đŽQ□Æ,μ,Ä,,¾,³,ç□B
- f,fff€,ªCEë“®□ì,μ,Ü,μ,½□B1 “xf,fff€,ì“dCE¹,đ□Ø,è□A20 •bŠÔ'Ò,Á,Ä,©,ç□Af,fff€
- ,ì“dCE¹,đ“ü,é'¼,μ,Ä,,¾,³,ç□B

fŠf. [fg fAfNfZfX, i\ -ftf@fCf<, i 1 ,Ä, É-³CEø, Èî•ň, ŠÜ, Ü, ê, Ä, ç, é%oÄ" \«, a, , è, Ü, ·, B, ±, ì-â'è, ð
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fŠf. [fg fAfNfZfX, ÄTf [fg, ³, ê, Ä, ç, È, çf, fff€, ðŽg, Ä, Ä, ç, éê±, íAfTf [fg, ³, ê, Ä, ç, éf, fff€
, ÉCEðŠ·, ·, é, ©A, Ü, ½, íCE»Ý, ìf, fff€, ðŽg—p, Ä, <, é, æ, x, Éf, fff€ fXfNfŠfvfg, ðC³, µ, Ä, , ¾, ¾, çBf, fff€
fXfNfŠfvfg, ðC³, ·, é•û-@, É, Ä, ç, Ä, íAuf, fff€, ìfXfNfŠfvfg ftf@fCf<, ÌŠT—v, ðŽQÆ, µ, Ä, , ¾, ¾, çB

fŠf. [fg fAfNfZfX, ìfXfNfŠfvfg ftf@fCf< (PAD.INF AMODEM.INF A, ", æ, Ń SWITCH.INF) , íAsystemroot\
System32\RAS fffBfCEfNfgfŠ, É, , è, Ü, ·, B

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695

,±,İfGf%oo[,İA'Ê[í,İ6<μ,Å,Í"□¶,μ,Ü,¹,ñ□BfRf"fsf...□[f^,ð□Ä<N"® ,μ,Ä□AfGf%oo[,ª"□¶,·,é'O,É□s,Á,½□\
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,±,İfGf%o[]l,İA'Ê[]í,İ6<μ,Å,Í"[]¶,μ,Ü,³,ñ[]BfRf"fşf...[]f^,ð[]Ä<N"@,μ,Ä[]AfGf%o[]l,³"[]¶,·,é'O,É[]s,Á,½[]\
[]¬,İ•İ[]X,³,·,x,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm"F,μ,Ä,,¾,¾,ç[]BfGf%o[]l,³%oðCE^,³,ê,È,ç[]ê[]‡,Í[]AWindows
NT ,İCfxf"fş f[]fO,ðŽQ[]Æ,μ,ÄCEx[]Ü,½,İfGf%o[]l,İÜ[]x,ð'²,x,Ä,,¾,¾,ç[]B

,±,İfGf%o□l,İ□A'Ê□í,İ□ó<μ,Å,Í"□¶,μ,Ü,¹,ñ□BfRf"fsf...□[f^,ð□Ä<N"® ,μ,Ä□AfGf%o□l,ª"□¶,·,é'O,É□s,Á,½□\
□¬,İ•İ□X,²,·,×,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm"F,μ,Ä,,³/₄,³,ç□BfGf%o□l,ª%oðCE^,³,ê,È,ç□ê□‡,Í□AWindows
NT ,İfCfxf"fg f□fO,ðŽQ□Æ,μ,ÄCEx□□,Ü,½,İfGf%o□l,İ□Ú□×,ð'²,×,Ä,,³/₄,³,ç□B

fŠf.[fg fAfNfZfX,ì\[-ftf@fCf<,ì 1 ,Â,É-³CEø,Èî•ň,ªŠÜ,Ü,ê,Ä,ç,é%oÂ"\"«,ª, ,è,Ü,·□B,±,ì-â'è,ð
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fŠf.[fg fAfNfZfX,ÄfTf|□[fg,³,ê,Ä,ç,È,çf,fff€,ðŽg,Á,Ä,ç,éê±,í□AfTf|□[fg,³,ê,Ä,ç,é,fff€
,ÉCEðŠ·,·,é,©□A,Ü,½,ÍCE»Ý,ìf,fff€,ðŽg—p,Â,«,é,æ,x,Éf,fff€ fxNfŠfVfg,ð□C□³,μ,Ä,,¾,¾,ç□Bf,fff€
fxNfŠfVfg,ð□C□³,·,é•û-@,É,Â,ç,Ä,í□A□uf,fff€,ìfxNfŠfVfg_ftf@fCf<,ìŠT—v□v,ðŽQ□Æ,μ,Ä,,¾,¾,ç□B

fŠf.[fg fAfNfZfX,ìfxNfŠfVfg_ftf@fCf< (PAD.INF□AMODEM.INF□A,“,æ,Ñ SWITCH.INF) ,í□Asystemroot\
System32\RAS fffBfCEfNfgfŠ,É, ,è,Ü,·□B

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□¬,İ•İ□X,ª,·,x,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm" F,μ,Ä,,¾,¾,ç□BfGf%oo[,ª%ooðCE^ ,³,ê,È,ç□ê□‡,Í□AWindows
NT ,İCfxf"fg f□fO,ðŽQ□Æ,μ,ÄCEx□□,Ü,½,İfGf%oo[,İÚ□x,ð'², x,Ä,,¾,¾,ç□B

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701

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702

fŠf.[fg fAfNfZfX,ì\□-ftf@fCf<,ì 1 ,Â,É-³CEø,Èî•ñ,ªŠÜ,Ü,ê,Ä,ç,é%oÂ"\"«,ª, ,è,Ü,·□B,±,ì-â'è,ð
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fŠf.[fg fAfNfZfX,ÄfTf|□[fg,³,ê,Ä,ç,È,çf,fff€,ðŽg,Á,Ä,ç,éê±,í□AfTf|□[fg,³,ê,Ä,ç,é,fff€
,ÉCEðŠ·,·,é,©□A,Ü,½,ÍCE»Ý,ìf,fff€,ðŽg—p,Â,«,é,æ,ª,Éf,fff€ fxNfŠfVfg,ð□C□³,μ,Ä,,¾,¾,ç□Bf,fff€
fxNfŠfVfg,ð□C□³,·,é•û-@,É,Â,ç,Ä,í□A□uf,fff€,ìfxNfŠfVfg_ftf@fCf<,ìŠT—v□v,ðŽQ□Æ,μ,Ä,,¾,¾,ç□B

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,ì<@“\,í[]ARASDIAL ,âfŠf,[]fg fAfNfZfX API ,Å,íTfj|[]fg,³,ê,Ä,ç,Ü,¹,ñ[]B

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705

,±,İfGf%o□l,İ□A'Ê□í,İ□ó<μ,Å,Í"□¶,μ,Ü,¹,ñ□BfRf"fsf...□[f^,ð□Ä<N"® ,μ,Ä□AfGf%o□l,ª"□¶,·,é'O,É□s,Á,½□\
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NT ,İfCfxf"fg f□fO,ðŽQ□Æ,μ,ÄCEx□□,Ü,½,İfGf%oo[,İ□Ú□x,ð'², x,Ä,,¾,¾,ç□B

707

X.25 $\pm, \textcircled{c}, \text{cfGf}\% \square [, \text{a} \bullet \hat{\text{O}}, 3, \hat{\text{e}}, \ddot{\text{U}}, \mu, \frac{1}{2} \square \text{BX.25}$ fvff of Cf_ , $\acute{\text{E}} \hat{\square} ^ , \text{ð} - \hat{\text{a}}, \text{t} \square \text{f}, \text{f}, 1, \text{Ä}, 3/4, 3, \text{t} \square \text{B}$

ſvfxfeſ€ŒŒ—ŒŽŒ,É^Ë—Š,µ,ÄŒAfAjfEj“fg,ðŒ,ŇŽg—p,Å,«,é,æ,π,É,µ,Ä,à,ç,Á,Ä,,¾,³,ŒŒB

709

,à,π^ê“xfpfXf□□[fh,ð•ï□X,μ,Ä,Ý,Ä,,¾,¾,ç□B,»ê,Å,à,±,ìf□fbfz□[fW,ª•\Ž|,¾,ê,é□ê±,í□AfVfXfef€ŠÇ—
□ŽÒ,É•ñ□□,μ,Ä,,¾,¾,ç□B

710

f,fff€,ì□%Šú'Ê□M'–“x (bps) ,đ%°°,°□A,à,¤^ê“xf_fCf,,f<,μ,Ä,,¾,¾,¼□B□%Šú'Ê□M'–“x,đ%°°,°,é•û-
@,É,Â,¼,Ä,Í□AfJf“f%°fCf“ fwf<fv,ì□uf,fff€,ì<@“\,đ□Y'è,·,é□v,đŽQ□Æ,μ,Ä,,¾,¾,¼□B

711

,±,İfGf%o□l,İ□A'Ê□í,İ□ó<μ,Å,Í"□¶,μ,Ü,¹,ñ□BfRf"fsf...□f^,ð□Ä<N"® ,μ,Ä□AfGf%o□l,ª"□¶,·,é'O,É□s,Á,½□\
□¬,İ•İ□X,²,·,×,Ä—LCEø,É,È,Á,Ä,ç,é,±,Æ,ðŠm" F,μ,Ä,,³/₄,³,ç□BfGf%o□l,ª%oðCE^,³,ê,È,ç□ê□‡,Í□AWindows
NT ,İfCfxf"fg f□fO,ðŽQ□Æ,μ,ÄCEx□□,Ü,½,İfGf%o□l,İ□Ú□×,ð'²,×,Ä,,³/₄,³,ç□B

712

,±,lfGf%o[,í[Af_fCf,,f< fAfEfg,Æ'...M—p,É\—,³,ê,Ä,ç,éf|[fg (biplex f|[fg) ,Å"□¶,·,é%oÅ"\
□«,ª, ,è,Ü,·□BfT□[fo□[,ª'...M—p,Éf|[fg,ð□%oŠú%o»,μ,Ä,ç,é,Æ,«,É□A"~Žž,Éf_fCf,,f<fAfEfg,·,é,Æ□A,±,lfGf
%o□[,ª"□¶,μ,Ü,·□B□"•bCEã,ÉfŠf_fCf,,f< ,·,ê,î□AfŠf,□[fg fAfNfZfX,É,æ,è,±,ì-â'è,í%oðCE^ ,³,ê,Ü,·□B

713

ISDN %ñü,³,µ,ú'±,³,ê,Ä,¨,èA'fCFWfXf^,³,µ,fCf"fxfg[f<,³,ê,Ä,ç,é,±,Æ,ðŠm"F,µ,Ä,©,ç (ISDN
f[h,]f}fj...fAf<,ðŽQ(Æ)Af_fCf,,f<,µ'¼,µ,Ä,,¼,³,çB,».,ê,Å,à,±,lfGf%[.³"¶,·,éê±,íAISDN
f[h,ì»'çE³,lfjXf^f} fT[frfX,©A,Ü,½,í ISDN %ñü,ð'ñ<ÿ,·,é'ÊM<ÆŽÒ,É-â,ç±,í,¹,Ä,,¼,³,çB

714

—~—p%oÂ"\\,È ISDN f`fffff<,Í,·,×,ÄŽg—p't,Å,·□B,Ç,ê,© 1 ,Â,ì%oñ□ü,ì□Ú'±
,ð□Ø'f,μ,Ä,©,ç□A_f_Cf,,f<,μ'¼,μ,Ä,,¾,¾,³,ç□B

715

"FØ'†,É"d~b%ñü,É"ñ"~ŠúfGf%[,"½",μ,Ü,μ,½B,à,π^è"x,â,è'¼,μ,Ä,,¾,¾,çB,»),ê,Å,à-â'è,ª
%øðĈ^,μ,È,çêç,ÍA'ÊM'¬"x,ð%º,°,Ä,,¾,¾,çB,Ü,½A—LĈø,É,μ,Ä,ç,éŠg'£<@"\,ª, ,éêç,ÍA,»),ê,ð-
¾Ĉø,É,μ,Ä,,¾,¾,çB"d~b',ĭf"ƒ%ofCƒ" ƒwƒƒv,ĭuf,fff€,ĭ<@"\,ðÝ'è,·,éçv,¨,æ,Ñuf,fff€
,ĭ"Á«çv,ðŽQÆ,μ,Ä,,¾,¾,çB

,±,İfGf%o[]l,í[]AfŠf,[]f g fAfNfZfX,İ TCP/IP ,İ[]\[]¬,É-â'è,ª, ,é,±,Æ,ðŽ,ı,μ,Ä,ç,Ü,·[]BfRf“fsf...
[]f^,ð[]Ä<N“® ,μ,Ä[]A[]\[]¬,É%oÁ,ı,½•İ[]X,ª,·,×,ÄŠmŽÀ,É—LŒø,É,È,é,æ,α,É,μ,Ä,,¾,³,ç[]B

717

fŠf. [fg flfbfgf [fNã, Å<£ [đ<N, ±, ³, È, ç IP fAfhfCEfX, đŽw'è, μ, ĀA, à, α^ê "xŽŽ, μ, Ā, Ý, Ā, ¾, ¾, çB

718

PPP , ìĈøM, íA, ç, Á, ½, ňŠjŽn, ³, ê, Ü, μ, ½, ² AfŠf, [fg fRf“fsf... [f^, ² “KØ, ÈŽžŠÔ“à, É
%ž“š, ð•Ô, ³, È, ©, Á, ½, ½, ß|—¹, ³, ê, Ü, μ, ½ B, ±, ìfGf% [, íA%ñü, ì•iž; ² ^ «, çêê, âAfT [fo [, É-â'è, ², ,
éêê, É“ñ, μ, Ü, ·B

PPP , ìĀēðM, íA, ç, Á, ½, ňŠjŽn, ³, ê, Ü, μ, ½, ² AfŠf, [fg f}fVf“, ì—v< , Å|—¹, ³, ê, Ü, μ, ½ BfT [fo [ä, ÅfGf
%o [, ² [, μ, ½, ÆŽv, í, ê, Ü, · B

,±,lfGf“fgfŠ—p,É□□¬,³,ê,½ PPP flfbfgf□□[fN□§CEävfv□fgfRf<,ª,È,ç,©□A,Ü,½,í’í%ž,·,éflfbfgf□□[fN
fvf□fgfRf<,ªfCf“fXfg□[f<,³,ê,Ä,ç,Ü,¹,ñ□B,±,lfGf%□□[,í□A□»•i,lfAfbfvfOfCE□[fh□^—□,É,æ,Á,Äflfbfgf□□[fN
fvf□fgfRf<,lŽí—p,ª•ï□X,³,ê,½□ê□‡,É”□¶,μ,Ü,·□B[“d~b’ ,lfGf“fgfŠ,ì•Ò□W] f_fCfAf□fO f{fbfNfX,ì [fT□[fo□□]
f^fu,Á□A[f_fCf,,f<fAfbfv fT□[fo□□[,lŽí—p] f{fbfNfX,©,ç [PPP] ,ð’l’ð,μ□A[flfbfgf□□[fN fvf□fgfRf<] ,Á•K—
v,Èfvf□fgfRf<,ð’²,×□AfGf“fgfŠ,ð□C□³,μ,Ä,,¾,³,ç□B<□\$“l,Éf_fEf“fCEfxf<,ì RAS □Ú’±,ð□s,¤
,½,ß,É^Ó□}“l,É,·,×,Ä,lfvf□fgfRf<,lf`fFfbfN f{fbfNfX,ðflft,É,μ,½□ê□‡,í□A,±,lfGf%□□[,í□Af_fEf“fCEfxf<,ì□Ú’±
,ÉŽg,í,ê,é NetBEUI fvf□fgfRf<,ªfCf“fXfg□[f<,³,ê,Ä,ç,È,ç,±,Æ,ðŽ!,μ,Ü,·□B

PPP ,É,æ,éÚ'±,ŽŽ,Ý,ç,ê,Û,μ,½, AfŠf, [fg fRf"fsf... [f^, %ž"š, μ, Û, 1, ñ, Å, μ, ½B, ±, lfGf
% [AfT [fo [, PPP ,đTf [fg, μ, Ä, ç, È, çê (, ½, Æ, I, Af_fEf" fCEfxf<, lfŠf, [fg fAfNfZfX fT [fo [, à
SLIP fT [fo [, È, Ç, ìê () , É" ¶, μ, Û, ·B

f_fEf" fCEfxf<, lfŠf, [fg fAfNfZfX fT [fo [, Æ'ÊM, ·, é, É, íANetBEUI fvf [fgfRf<, afCf" fXfg [f<, 3, ê, Ä, ç
, È, ˘, ê, Í, È, è, Û, 1, ñB, Û, ½ASLIP fT [fo [, Æ'ÊM, ·, é, É, íAf_fCf, f<, ·, éfGf" fgfŠ, É SLIP
fvf [fgfRf<, ð'ì'ð, μATCP/IP fvf [fgfRf<, đCf" fXfg [f<, μ, Ä, ç, È, ˘, ê, Í, È, è, Û, 1, ñB Ûx, É, Ä, ç
, Ä, íA uflfbfgf [fN fvf [fgfRf<, ìÝ'èv, đŽQ Æ, μ, Ä, , ¾, ¾, çB

, ±, lfGf% [AfT [fo [, PPP Ú'±ŠŽn'O, Éf^ [f~fif<, đŽg, Á, ½f [fOf" , đ—v< , ·, éê (, É, à" ¶, ·, é%o"À"
¶« , à, è, Û, ·BfT [fo [, af^ [f~fif<, đŽg, Á, ½f [fOf" , đ—v< , ·, éê (, íAf_fCf, f< fAfbfv flfbfgf [fN, ì
[fXfNfŠfvg] f^fu, ÅAf^ [f~fif< fEfBf" fhfE, đŽg, x, æ, x, É'ì, Ô, ±, Æ, à, Å, «, Û, ·B

f^ [f~fif<, đŽg, Á, ½f [fOf" , É, æ, è-â'è, đ%đCE^, Å, «, ½ê (, íAf_fCf, f< fAfbfv flfbfgf [fN, ì [fXfNfŠfvg]
f^fu, Åf_fCf, f< CEä, É<N" ® , ·, éfXfNfŠfvg, ð'ì'ð, ·, é, ±, Æ, É, æ, èA^ È~ , ìÚ'±, Å, lf^ [f~fif< f [fOf" , đŽ © " ®
%o» , ·, é, ±, Æ, à, Å, «, Û, ·B

722

ŽóM,μ,½ PPP fpfPfbfg,ìE`Ž®,ª—LCEø,Å,í, ,è,Ü,¹,ñ,Å,μ,½B

723

“d~b”Ô□†,ì·,³í□A□ú“a”Ô□†,Æ□ú”ö”Ô□†,àšÛ,ß,Ä□A□Å’â 128 •¶žš,Û,Å,Å,·□B

725

,±,İfGf%o[]l,í[]AfŠf,[]fg fAfNfZfX,ì IPX []\[]¬,É-μ[],,ª, ,é,±,Æ,đŽ!,μ,Ä,ç,Û,·[]BfRf“fsf...
[]f^,đ[]Ä<N“® ,μ,Ä[]A[]\[]¬,É%oÁ,¡,½•İ[]X,ª,·,×,ÄŠmŽÀ,É—LŒø,É,È,é,æ,α,É,μ,Ä,,¾,³,ç[]B

726

IPX fvf□fgfRf<,đŽg,Á,½f_fCf,,f< fAfEfg,Å,í□Af|□[fg,í 1 ,Â,μ,©Žg—p,Å,«,Ü,¹,ñ□B

727

TCPCFG.DLL ,íATCP/IP ,i•K{ \ —v'f,Å,·BTCP/IP ,^aμ,fCf“fXfg[f<,³,ê,Ä,ç,é,±,Æ,đŠm”F,μ,Ä,-
,³/₄,³,çB

,±,İfGf%o[]l,í[]AfŠf,[]f g fAfNfZfX,İ TCP/IP ,İ[]-É-â'è,ª, ,é,±,Æ,ðŽ,µ,Ä,ç,Ü,·[]BfRf“fsf...
[]f^,ð[]Ä<N“® ,µ,Ä[]A[]-É%oÁ,½•İ[]X,ª,·,×,ÄŠmŽÀ,É—LŒø,É,È,é,æ,α,É,µ,Ä,,¾,³,ç[]B

fRf“fgf□□lf< fpflf<,đŽg,Á,Ä TCP/IP ,đfCf“fXfg□□lf<,μ,Ä,,³/₄,³,¢□B

730

fRf“fsf... [f^, l“o~ ^□ó‘Ô, ÉŠÖ, ., é□î•ñ, a—v<□, ³, ê, Ü, μ, ½, a□A—v<□, ³, ê, ½Žž“_ , Å, í□A, » , i□î•ñ, í, Ü, ¾Žæ“¾
%oÅ“\, É, È, Á, Ä, ç, Ü, ¹, ñ, Å, μ, ½□B

731

PPP ¶§Eäfvf¶fgfRf<,ÉŠÖ,·,é“Á'è,ìî•ñ,^a—v<¶,³,ê,Ü,μ,½,^a¶PPP ¶§Eäfvf¶fgfRf<,Í\¶¬,³,ê,Ä,¢
,Ü,¹,ñ,Å,μ,½¶B

732

f□□[f]f< fRf“fsf...□[f^,ÆfŠf.□[fg fRf“fsf...□[f^,Å<α'Ê,ÉŽ□,Â^ê~A,ìpf%of□□[f^,ªCEÝ,ç,É^ê'v,μ,Ä,ç
,È,©,Á,½,½,ß□APPP fpf%of□□[f^,ìfSfVfG□[fVf†f“,Í□-CE÷,μ,Ü,¹,ñ,Å,μ,½□B

733

ft[f]o[f]l,í[APPP ,đftf][fg,μ,Ä,ç,Ü,·,ª[AfNf%ofCfAf“fg flfbfgf[fN fv[fgfRf<,đftf][fg,μ,Ä,ç,Ü,¹,ñ[B

734

PPP fŠf“fN□§Eäfvf□fgfRf<, ìEð□M, í□A, ç, Á, ½, ñŠJŽn,³ ê, Ü, μ, ½, ^a□AfŠf, □[fg fRf“fsf...□[f^, ì—v<□, Å□—
^{1,3} ê, Ü, μ, ½□BfT□[fo□[□ă, ÅfGf%□[^a□□, μ, ½, ÆŽv, í, ê, Ü, ·□B

735

fNf%oCfAf“fg,í“Á'è,ì IP fAfhfCEfX,ð—v<□,·,é,æ,ɹ,É□\□¬,³,ê,Ä,ç,Ü,·,ª□Aft□[fo□[.ªfNf%oCfAf“fg,É“Á'è,ì IP
fAfhfCEfX,ð—v<□,·,é,±,Æ,ð<-‰Â,μ,Ä,ç,È,ç,©□A,Ü,½,ÍŽw'è,μ,½ IP fAfhfCEfX,ÍŠù,É,Ù,©,ìfNf
%oCfAf“fg,ÉŽg,í,ê,Ä,ç,Ü,·□B

736

PPP flfbfgf[] [fN[]\$CEäfvf[]fgfRf<, ìCEð[]M, í[]A, ç, Á, ½, ñŠJŽn, ³, ê, Ü, μ, ½, ^a AfŠf, [] [fg fRf“ fsf... [] [f^, ì—v<[], Å[]—
^{1,3}, ê, Ü, μ, ½[]BfT[] [fo[] [ä, ÅfGf%[] [," []¶, μ, ½, ÆŽv, í, ê, Ü, ·[]B

737

PPP ĆđM,đs,Á,Ä,ć,éff[fjf< fRf“fsf...[f^,ÆfŠf,[fg fRf“fsf...[f^,í“^ê,ìRf“fsf...[f^,Å,·B'ÉíA,±
,ìGf%[,íAfŠf“fNă,ì'·u (f,fff€,È,Ç) ,ª•¶Žš,đfGfR[fofbfN,μ,Ä,ć,é,±,Æ,đŽ!,μ,Ä,ć,Û,·B,±
,é,ç,ì'·u,đfŠfZfbfg,μ,Ä,,¾4,¾,ćB

Microsoft Windows NT fT[fo[^ÈŠO,ìfT[fo[ì,ìê[íA,±,ìGf%[,íAfŠf,[fg fRf“fsf...[f^,ªÚ'±,đŠm
—š,·,é'O,ÉfefĀf^fCfvf%ofCf^ (TTY) Ć`Ž®,ìfOfCf“,đŽŽ,Ý,Ä,ć,é,±,Æ,đŽ!,μ,Ä,ć,éê[à, ,è,Û,·B,±
,ìGf“fgfŠ,đAÚ'±Āă,Éf^[f~fif< fEfBf“fhfE,đ\Ž!,·,é,æ,æ,É\¬,μ,Ä,,¾4,¾,ćB

738

fT[f_ol, íAŠ,, è“-, Ä, ç, ê, Ä, ç, éfAfhfCEfX fv[f<, ©, ç, ì IP fAfhfCEfX, ðfNf%ofCfAf“fg, ÉŠ,, è“-, Ä, é, ±
,Æ, ð, Å, «, Ü, ¹, ñ, Å, µ, ½BfŠf. [fg flfbfgf[fN, Å<£±, ð<N, ±, ³, È, ç, æ, æ, È IP fAfhfCEfX, ðfNf
%ofCfAf“fgä, ÅŽw'è, µ, ÄÚ'±, µ, Ä, Ý, Ä, ³/₄, ³, çB

739

,±,İfGf%o[,İAMicrosoft Windows NT fT[fo[^ÈŠO,İfT[fo[,Ö PPP ū'±,đs,Á,½,Æ,«,É,μ,©"-
ñ,μ,Ü,¹,ñBfT[fh fp[fefB,İfT[fo[,Æ,İ'ŠCEY%o^—p,İ,½,ß,ÉŽg,í,ê,é PPP
,İ•W€"Føfjvf[fgfRf<,Á,İAfNfŠfAfefLjXfgE`Ž®,Á—~—p%oÂ"\,ÈfpfXf[fh,ª—v<³,ê,Ü,·,ªAWindows
NT ,Á,İfZfLf...fŠfefB,đ•Û,Â,½,ß,É^Ã+«»,³,ê,½fpfXf[fh,μ,©•Û'ñ,³,ê,Ü,¹,ñB

740

fŠf. [fg fAfNfZfX—p, É\□¬,³,ê,Ä,ç,é TAPI fffofCfX, ì%Šú
%»»,ÉŽ, "s,μ,½, ©□A,Ü,½,Í,», ìfffofCfX,²□³□í,ÉfCf“fXfg□[f<,³,ê,Ä,ç,Ü,¹,ñ,Å,μ,½□BfŠf,□[fg fAfNfZfX, " ,æ,Ñ
TAPI fffofCfX,ð□í□œ,μ□AŽŸ,É□AfŠf,□[fg fAfNfZfX, " ,æ,Ñ TAPI fffofCfX,ð□ÄfCf“fXfg□[f<,μ,Ä,,¾,³,ç□B

741

[ff□[f^,đ^Ã□+‰»,,é] f`fFfbfN f{fbfNfX,ªfif“,É,È,Á,Ä,ç,Û,·,ª□ARAS fhf%œfCfo,É^Ã□+‰»<@”\ ,ª, ,è,Û,¹,ñ□B,±,ļ`fFfbfN f{fbfNfX,đfift,É,μ,Ä□A^Ã□+‰»»,đ□s,í,È,ç□Ú’±,đŽg,Á,Ä,,³/4,³,ç□B

742

[ff[f^,ð^Ã+%%».,.é] f`fFfbfN f{fbfNfX,ªf|f“,É,È,Á,Ä,ç,Ü,.,ªARAS fT[fó[f[,Íff[f^,ì^Ã+%%».,ðfTf|
[fg,µ,Ä,ç,Ü,¹,ñB,±,ì`fFfbfN f{fbfNfX,ðf|ft,É,µ,Ä^A^Ã+%%».,ðs,í,È,çÚ'±,ðŽg,ª
,©A,Ü,½,ÍVfXfef€ŠÇ—ŽÒ,É-â,ç‡,í,¹,Ä,,³/₄,³,çB

743

[f^, ð^Ã+%%».,.é] f`fFbfN f{fbfNfX,ªfif“,É,È,Á,Ä,ç,Û,.,ªA f[]fj]f< RAS fNf%ofCfAf“fg,É,Í^Ã+%%»<@“\ ,ª, ,è,Û,¹,ñB

744

WAN ,Æ, ðfCf“f^□[ftfFfCfX—p,Æ,μ,Ä□ARAS fT□[fo□[,©,çfNf%ofCfAf“fg,ÉŠ,,è“- ,Ä,ç,ê,½ IPX
flfbfgf□□[fN“Ô□†,Í□AŠù,ÉfNf%ofCfAf“fg,ì LAN □ã,ÅŽg,í,ê,Ä,ç,Ü,·□B
fNf%ofCfAf“fg,ð LAN ,©,ç□Ú‘±%oð□œ,μ□A3 •ªŠÔ‘Ò,Á,Ä,©,ç,â,è‘¼,μ,Ä,,¾,³,ç□B

752

“d~b’ fGf“fgfŠ,ÉŠÖ~A•t, ¯,ç,ê,Ä,ç,éf_fCf,,f<fAfbfv fXfNfŠfsvfg,É\•¶fGf%oo[,a, ,è,Ü,·□B
f_fCf,,f<fAfbfv flfbfgf□□[fN,Å□A“d~b’ fGf“fgfŠ,ÉŠÖ~A•t, ¯,ç,ê,Ä,ç,éfXfNfŠfsvfg,đ•Ò□W,μ,Ä,-
,³/₄,³,ç□B[fXfNfŠfsvfg] f^fu,Å□A[fXfNfŠfsvfg,ì•Ò□W] ,đfNfŠfsvfgN,μ,Ü,·□B

fl[fgf_fCf,,f<,ðflft,É,·,é

fl[fgf_fCf,,f<,íAfrf“fsf...[f^,ìN“®Žž,Éž©“®“l,É—LCEø,É,È,è,Û,·,ªA•K—v,É%ž,¶,Äflft,É,·,é,±,Æ,à,À,«,Û,·(,½,Æ,¡,îA1 ,Â,ìŠŠÝ’n,lfRf“fsf...[f^,É•i□”,lfCf“f^□[flfbfg fvf□fofCf_ªÝ’è,µ,Ä, ,èA•K—v,É%ž,¶,Äfvf□fofCf_,ðŽg,ç•ª,·,éêê‡,È,Ç)B

fl[fgf_fCf,,f<,ðflft,É,·,é,É,í

1 f_fCf,,f<fAfbfv flfbfgf□□[fN,Â□A[f_fCf,,f<,·,é“d~b’ fGf“fgfŠ] ^è—,©,çf_fCf,,f<□æ,lfGf“fgfŠ,ð’l’ð,µ,Û,·□B

2 [,>,ì¼], ðfNfŠfbfN,µ□A[ft□[fU□[□Ý’è] ,ð’l’ð,µ,Û,·□B

3 [f_fCf,,f<] f^fu,Â□A[□ŠŠÝ’n,É,æ,èf□[fgf_fCf,,f<,ðŽg,æ] ^è—,É•Ž!,³,è,Ä,ç,éŠe□ŠŠÝ’n,lf`fFfbfN f{fbfNfX,ðflft,É,µ,Û,·□B

fl[fgf_fCf,,f<,ðflf“ ,É,·,é,É,íA[□ŠŠÝ’n,É,æ,èf□[fgf_fCf,,f<,ðŽg,æ] ^è—,É•Ž!,³,è,Ä,ç,éŠe□ŠŠÝ’n,lf`fFfbfN f{fbfNfX,ðflf“ ,É,µ,Û,·□B

ŠÖ~A□€-Ú

RAS fl[fgf_fCf,,f<,ìŠT—v

fl[fgf_fCf,,f<,ÉŠÖ,·,éfgf%uf<fVf...[fefBf“fO

fl[fgf_fCf,,f<,ÉŠÖ,·,éfgf%ofuf<fvf...[fefBf"fo

CE»Y,lfšfš[fX,ìšm"FO,Ï,Ì-à'è

- flfbfgf[fN fJ[fh,δ-3CEø,É,·,é•K—v,ª, ,éèèèAflfbfgf[fN fAf_fvf^ fJ[fh,©,cfP[fuf<,δ,Ì,·,µ,½,¾,·,À,ÌAflfbfgf[fN,δ-3CEø,É,µ,½f[ó'Ó,É,·,é,±,Æ,Í,À,«,Û,¹,ñB,±,Ì,æ,π,Éèèè,ÌAflfbfgf[fN fAf_fvf^ fJ[fh,δ-3CEø,É,µ,½fn[fhfEFA fvf@fCf<,δV,µ,ì,µ,À,·,¾,³,çB
- fRf"fgf[f< fpflf<,ì [fvXfef€] fAfCfRf",δf_fuf<fNfSfbfN,µA[fN[fhfEFA fvf@fCf<] f^fu,ÀACE³,ìY'è,lfRfs[,δ,µ,Û,·BZY,ÉAfRf"fgf[f< fpflf<,ì [ffofCfX] fAfCfRf",δf_fuf<fNfSfbfN,µAflfbfgf[fN fJ[fh,δ'ì'è,µ,À,©,ç [fn[fhfEFA fvf@fCf<] ,δfNfSfbfN,µ,Û,·B[V,µ,çfn[fhfEFA fvf@fCf<,δ'ì'è,µAflfbfgf[fN fJ[fh,δ-3CEø,É,µ,Û,·B[VfXfef€ ,δA<N"®,·,é,ÆAflfbfgf[fN,ª-3CEø,É,È,À,½fv[fCf<,δ'ì'è,À,«,Û,·B
- PCMCIA fJ[fh,δ[Zž'·...µ,½f[f<fuf< fRf"fsf...[f^,δŽg,Á,ÀA%o"Šu'n,©,cf[fbgf[fN,ÉÚ± ,·,éèèè,É,Ç,ÉA,±,ìY'è,Ì-è—š,ì,Û,·B

- ŽY,ì 3 ,À,ìδCE,ª—š,·,éèèè,ÌADNS fT[fO[,afCf" f^ [flfbfg fzXfg-¼,δ%øCE^ ,µ,À,ç,È,ç,± ,Æ,δšm" F,µ,Û,·B
- flfbfgf[fN,É DNS fT[fO[,ª'fY,·,é
- flfbfgf[fN,afCf" f^ [flfbfg,É¼Ú±,³,è,À,ç,È,ç
- fCf" f^ [flfbfg fAfhfCfX,ÉŽ©"®"l,Éf_fCf,,f<,·,é

'â"ª,lfCf" f^ [flfbfg fT[fefBšfefB (ftp,â WWW fuf%ofEfu,È,Ç) ,À,ìA³šm,É'è'v,·,é-¼'Ó,è DNS ,É-â,ç,±,í,¹,é,±,Æ,Í, ,è,Û,¹,ñB,±,Ì,½,βADNS fT[fO[,ÌA fAfhfCfX,δf[fj< fhfCf"ª,lfAfhfCfX,Æ,µ,À %øCE^ ,µ,À,µ,Û,±,Æ,ª, ,è,Û,·B,½,Æ,ì,ÌAflfbfgf[fN,ÉÚ±,µ,À,ç,é,Æ,«,ÉAZŽ,Ì,æ,π ,ÉfRf}f"fh,δ"ü—ì,µ,Û,·B

```
C:> ping ftp.microsoft.com
Bad IP address ftp.microsoft.com
```

,±,ì ping fRf}f"fh,À-¼'Ó,ª IP fAfhfCfX,É%øCE^ ,³,è,éèèè,ÌAZg—p,µ,À,ç,éRf"fsf...[f^,ì DNS ,δ-³CEø,É,µ,È,·,è,ì,È,è,Û,¹,ñB,±,Ì,æ,π,É,·,é,ÌAflfbfgf[fN,ÉÚ±,µ,À,ç ,é,Æ,«,É,àAfl[fgf_fCf,,f<,AfCf" f^ [flfbfg fAfhfCfX,ÉŽ©"®"l,Éf_fCf,,f<,À,«,Û,·B

- f[fgf_fCf,,f<,É,ÌA,É,Æ,à 1 ,À,Ì TAPI [šY'n,ª•K—v,À,·Bf[fgf_fCf,,f<,ÌACE»Y,Ì TAPI [šY'n,ÉŠ,À,ç,ÀA" ,lfAfhfCfX,δŽ,À'ù,È,é RAS "d'b' fGf"fgfš,ÉŽ©"®"l,Éf_fCf,,f<,·,é,±,Æ,ª, ,è,Û,·B ,½,Æ,ì,ÌAHome ,Æ Office ,ì 2 ,À,Ì TAPI [šY'n,δ,µAflfbfgf"fh ftp ftp.microsoft.com ,δŽÀs,·,é,Æ,µ,Û,·BCE»Y,Ì TAPI [šY'n,ª Home ,ÉY'è,³,è,À,ç,éèèèAfl[fgf_fCf,,f<,ÌARAS "d'b' fGf"fgfš,Ì INTERNET1 ,ÉŽ©"®"l,Éf_fCf,,f<,µ,Û,·BCE»Y,Ì TAPI [šY'n,ª Office ,ÉY'è,³,è,À,ç ,éèèèAfl[fgf_fCf,,f<,ÌARAS "d'b' fGf"fgfš,Ì INTERNET2 ,ÉŽ©"®"l,Éf_fCf,,f<,µ,Û,·B

TAPI [šY'n,δ,µAflfbfgf"fh [fefCfHfj[] ,δŽg,ç,Û,·B

- fGfNfXfv[f% ,ª%šÚ%» ,³,è,é,Æ,«,ÉAffXfNfgfbfv,lfv# [fgjfbfg fAfCfRf",áfšf"fnæ,lfšf, [fg fpfX,ªŽQ/Æ,³,è,é,±,Æ,ª, ,è,Û,·B,±,Ì,æ,π,ÉèèèAfl[fgf_fCf,,f<,ªZA[s,³,è,é,±,Æ,ª, ,è,Û,·BfRf"fsf... [f^ ,ò,lfOfif"Žž,Éf[fgf_fCf,,f<,ªÚ±,δšm—š,µ,æ,π,·,éèèè,ÌAffXfNfgfbfv,lfv# [fgjfbfg fAfCfRf",áfšf"fnæ,©,çšf, [fg fpfX,δ,µA,·,é,©A,Û,½,lf[fj< ftf@fCf<,δŽQ/Æ,·,é,æ,π ,ÉY'è,è,ìX,µ,À,·,¾,³,çB
- [fXf^ [fg] f[fj... [,ì [ftf@fCf<-¼,δŽw'è,µ,ÀŽÀ[s] fRf}f"fh,ì'è—,É•Ž,³,è,éRf}f"fh,áfšf, [fg fpfX,ÉfAfNfZfX,·,éèèèA,» ,lfRf}f"fh,δ'ì'è,·,é,ÆAfl[fgf_fCf,,f<,ªZA[s,³,è,Û,·BCE»Y,ÌA,±,ì'è—,ì€-Û,δCEÁ•É,É[ç,·,é,±,Æ,Í,À,«,Û,¹,ñB,±,Ì-à'è,δ%ñ"è,·,é,É,ÌA fCfWfXfgfš,Ì HKEY_CURRENT_USER\ Software\Microsoft\Windows\CurrentVersion\Explorer\RunMRU fL[,δ,µAfl[fOfif,µ,½CEäA,à,ª'è"xfOfif" ,µ,Û,·BfOfif" ,µ¼,·,ÆA[fXf^ [fg] f[fj... [,ì [ftf@fCf<-¼,δŽw'è,µ,ÀŽÀ[s] fRf}f"fh,ì'è—,ìó,É,È,Û,·B

fl[fgf_fCf,,f<,ìó'Ó

-à'è,ª, ,éèèè,ÌAflfbfgf"fh fvf"fvfg,©,çŽY,lfRf}f"fh,δŽÀs,·,é,ÆAfl[fgf_fCf,,f<,ìšì- {ó'Ó,ÉŠÖ,·,éèèè,δžæ"¾,À,«,Û,·B

C:> rasautou -s

,±,lfRf}f"fh,ìo—ìCE%øÈ,ÌAflfbfgf[fN fAf_fvf^ fJ[fh,lfofCf"fh,ÆAfl[fgf_fCf,,f<,É<L%ø ,³,è,À,ç ,éAfhfCfX,ì'è—,ì 2 ,À,Ì"ª,©,ç,µ,Û,·B,lffbfgf[fN,ÉÚ±,³,è,À,ç,é,± ,Æ,δf[fgf_fCf,,f<,ªFž' ,·,é,É,ÌA,È,Æ,à 1 ,À,lffbfgf[fN fAf_fvf^ fJ[fh,lfofCf"fh,ª"®,µ,À,ç,é,±

,Æ,ª•ñ□□,³,ê,È,¯,ê,Î,È,è,Û,¹,ñ□Bflfbfgf□□[fN,É□Ú'±,μ,Ä,ç
,é,Æ,«,É□Afl□[fgf_fCf,,f<,ªŽ©“@“l,Éflfbfgf□□[fN□Ú'±,đŠm—š,·,é,É,Í□Afl□[fgf_fCf,,f<,É<L%□,³,ê,Ä,ç
,éfAfhfCfX,ì^è—,É-Ú“l,ìfAfhfCfX,ª,È,¯,ê,Î,È,è,Û,¹,ñ□BŽÿ,É□Aflfbfgf□□[fN fAf_fvf^ f□[fh,ìfofCf“fh,Æ<L
%□,³,ê,Ä,ç,éfAfhfCfX,ì^è—,ì-á,đŽ!,μ,Û,·□B

Checking netcard bindings...

NetworkConnected: network (\Device\Nbf_IEEPRO1, 0) is up

Enumerating AutoDial addresses...

There are 3 Autodial addresses:

ftp.microsoft.com

198.105.232.1

SCRATCH

ŠÖ~A□€-Ú

f□[fgf_fCf,,f<,đflft,É,·,é

RAS f□[fgf_fCf,,f<,ìŠT—v

f}f<f`fŠf“fN f_fCf,,f<,İŠT—v

"f}f<f`fŠf“fN" ,Æ,ÍA•;□",ì•" —□"l,ÈfŠf“fN,đ'g,Ý□‡,í,¹,Ä 1 ,Ä,İ~ —□"l,È "'©" ,É,·,é,±,Æ,Ä,·□B,±,ì,æ,ı
,ÉfŠf“fN,đ'© ,È,é,±,Æ,É,æ,è□A'Ñ^æ•□,²□L,²,è,Ü,·□B

RAS ,ÍA•;□",ì İSDN□AX.25□A,Ü,½,Íf,fff€%ñ□ü,đ%î,μ,Ä PPP f}f<f`fŠf“fN f_fCf,,f<,đŽÄ□s,μ,Ü,·□B,±
,ì<@\,²~ —p,Ä,«,é,ì,ÍA•;□",ì WAN fAf_fvf^,đfRf“fsf...□[f^,²~ —p,Ä,«,é□ê□‡,¼,¯,Ä,·□B

f}f<f`fŠf“fN,đ~ —p,·,é,É,Í□AfNf%□fCfAf“fg,ÆfT□[fo□[,ì—¼•ù,Äf}f<f`fŠf“fN,đ—
LCEø,É,μ,È,¯,ê,Î,È,è,Ü,¹,ñ□B

'□ fZfLf...fŠfefB□ã,ì—□—R,©,ç□Aft□[fU□[,ÉfR□[f<fofbfN,·,é,æ,ı,É□□¬,³,ê,Ä,ç,é ("□SfR□[f<fofbfN")
fT□[fo□[,É□Af}f<f`fŠf“fN,³,è,½“d~b' fGf“fgfŠ,đŽg,Ä,ÄfNf
%□fCfAf“fg,©,çf_fCf,,f<,μ,½□ê□‡□AfR□[f<fofbfN,³,é,é,ì,Í□Af}f<f`fŠf“fN,³,è,½fff□fCfX,ì,ı,¿,ì 1
,Ä,¼,¯,Ä,·□B,±,è,Í□Aft□[fU□[fAfJfEf“fg,É'í,μ,Ä<L%¬,³,è,é"Ö□t,² 1 ,Ä,¼,¯,ì,½,ß,Ä,·□B,±,ì,½,ß□A1
,Ä,İfff□fCfX,μ,©□Ú'±,Ä,«,□A,Ü,©,ì,·,ı,Ä,İfff□fCfX,Í□Ú'±,ÉŽ, "s,·,é,ì,Ä□AfNf
%□fCfAf“fg,Íf}f<f`fŠf“fN<@\,đŽ,·,ç,Ü,·□B

f}f<f`fŠf“fN,³,è,½“d~b' fGf“fgfŠ,²□A“¬,¶“d~b”Ô□t,Ä 2 ,Ä,İf`fff□f<,đŽg,ı İSDN
,ì□ê□‡,Í□A□³□í,É“®□ì,μ,Ü,·□B

f}f<f` fŠf“fN,đ—LCEø,É,·,é

RAS fNf%oƒCfAf“fg,Áf}f<f` fŠf“fN,đ—LCEø,É,·,é,É,Í

- 1 f_fCf,,f<fAfbfv flfbfgf□□[fN,Á□A[f_fCf,,f<,·,é“d~b’ fGf“fgfŠ] ^ê—,©,cf_fCf,,f<□æ,lfGf“fgfŠ,đ‘l’đ,μ,Û,·□B
- 2 [,>,ì¼] ,đfNfŠfbfN,μ□A[fGf“fgfŠ,Æf,fff€,ìfvf□fpfefB,ì•Ò□W] ,đ‘l’đ,μ,Û,·□B
- 3 [Šî-{} f^fu,ì [f_fCf,,f<•û-@] f{fbfNfX,Á□A[•i□“%oň□ü] ,đ‘l’đ,μ,Û,·□B
- 4 [□□-] ,đfNfŠfbfN,μ□A□Ú’±,ÉŽg,xf,fff€,Û,½,lfAf_fvf^,đ‘l’đ,μ,Û,·□BŽŸ,É□A[OK] ,đfNfŠfbfN,μ,Û,·□B

RAS fT□[fo□[,Áf}f<f` fŠf“fN,đ—LCEø,É,·,é,É,Í

- 1 fRf“fgf□□[f< fpfj<,ì [flfbfgf□□[fN] fAfCfRf“ ,đf_fuf<fNfŠfbfN,μ,Û,·□B
- 2 [fT□[rfX] f^fu,Á□A[flfbfgf□□[fN fT□[rfX] f{fbfNfX,ì [fŠf,□[fg fAfNfZfX fT□[rfX] ,đ‘l’đ,μ□A[fvf□fpfefB] ,đfNfŠfbfN,μ,Û,·□B
- 3 [fŠf,□[fg fAfNfZfX fZfbfgfAfbfv] f_fCfAf□fO f{fbfNfX,ì [flfbfgf□□[fN] ,đfNfŠfbfN,μ,Û,·□B
- 4 [flfbfgf□□[fN,ì□□-] f_fCfAf□fO f{fbfNfX,Á□A[f}f<f` fŠf“fN,đŽg,xf] f`fFfbfN f{fbfNfX,đfif“ ,É,μ□A[OK] ,đfNfŠfbfN,μ,Û,·□B

Ú±,ŠŽ,μAóμ,ðñ,é

fRf“fgf[]f< fpf[]f<, É, éf_cfAf<fAfbfv flfbfgf[]fN f,jjf^,Í[]AÚ±,ÉŠÖ,·,é[]AZÿ,ì“à—e,ð·\Žì,μ,Û,·[]B

- Ú±‘—“x
- Ú±ŽŽŠÖ
- RAS fT[]fo[],ÉÚ±,μ,Ä,ç,éft[]fU[],ì-¼‘O
- Ú±,ÉŽg,í,è,Ä,ç,évf[]fgfRf<
- Ú±,ÉŽg,í,è,Ä,ç,éfff[]CfX

,Û,½[]Af_cf,,f< fAfbfv flfbfgf[]fN f,jjf^,ðŽg,æ,Æ[]AfAfNfefBfu,È[]Ú±,ð[]Ø‘f,·,é,±

,Æ,à,Ä,«,Û,·[]Bf}f<f`fŠf“fN[]Ú±,ð[]s,Ä,Ä,ç

,é[]é[]±,Í[]A“Á‘è,ìfff[]CfX,ð[]Ø‘f,μ[]A,»,ìfff[]CfX,ð,Û,©,ì[]CEÄ,Ñ[]o,μ,ÉŽg,æ,±,Æ,ª,Ä,«,Û,·[]B

Šù‘è,ì[]Ý‘è,Ä,Í[]Af_cf,,f<fAfefg,·,é,Æ[]Af_cf,,f<fAfbfv flfbfgf[]fN f,jjf^,af^fXfNfo[],É·\

Žì,³,è,Û,·[]BfefBf“fhfE,Æ,μ,Ä·\Žì,³,è,é,æ,æ,É·\Žì[]CE`Ž®,ð·\[]X,·,é,É,Í[]A[[]Ý‘è] f^fu,ðŽg,ç

,Û,·[]Bf_cf,,f<fAfbfv flfbfgf[]fN f,jjf^,É,Í[]Af_cf,,f<fAfbfv%ñü,ìgf%ftfBfbfN,ðŽì,·f%[]Cfg,ª·\

Žì,³,è,Û,·[]Bff[]f^,ì‘—[]M‘t,Û,½,ÍŽó[]M‘t,Í[]Af%[]Cfg,ª[]Ä,“_“”,μ[]AfGf%[][,ª“[]¶,·,é,Æ[]Af%[]Cfg,ª[]Ö,-

“_“”,μ,Û,·[]B

f_cf,,f<fAfbfv flfbfgf[]fN f,jjf^,ðfefBf“fhfE,Æ,μ,Ä·\Žì,·,é[]é[]±,Í[]A·;[]”,ìfff[]CfX,ìf%[]Cfg,ð·Ä,x,Ä·\

Žì,Ä,«,Û,·[]B,»,ì,æ,æ,É[]\[]-,·,é,É,Í[]A[[]Ý‘è] f^fu,ì [f%[]Cfg] ,ðfNfŠfbfN,μ,Û,·[]B

Še[]€-Û,ìfwf<fv,ð·\Žì,·,é,É,Í[]Af_cfAf[]fo f{fbfNfX,ì%[]E[]ä,ì ? ,ðfNfŠfbfN,μ[]A-Û“l,ì[]€-Û,ðfNfŠfbfN,μ,Ä,-

,¾,³,ç[]B

X.25 ,iŠT—v

X.25 jlfbfjgff[]fN,Á,í[]AfpfPfbfgCEđŠ·fvf[]fgfRf<,đŽg,Á,Äff[]f^,đ“‘—,μ,Ü,·[]B,±
,lfvf[]fgfRf<,í[]AfpfPfbfg“]’—fm[]fh,Á[]\[]¬,³,è,Ä,ç,é[]çŠE<K-í,í,[]!,Èfjlfbfjgff[]fN,ÄŽg—
p,Ä,«,Ü,·[]BŠefm[]fh,í[]AŽw’è,³,è,½fAfhfCEfX,É X.25 fpfPfbfg,đ”z[]M,μ,Ü,·[]B

ŠÖ~A[]ε-Ú

X.25 ,đfCf“fXfg[]f<,·,é

X.25 ,lfpf%of[]f^,đ[]Ý’è,·,é

X.25 ,ÉŠÖ,·,éfgf%ofuf<fvf...[]f[]efBf“fo

X.25 ,đfCf“fXfg□[f< ,.é

1 X.25 PAD ,Ü,½,í X.25 fXf}□[fg fj□[fh,đfRf“fsf...□[f^,ÉfCf“fXfg□[f<,μ□AfRf“fsf...
□[f^,đ<N“@,μ,Ü,·□Bfj□[fh,lfCf“fXfg□[f<•û-@,É,Â,č,Ä,í□AX.25 fj□[fh,ì□»‘čĚ³,²‘ň<Ÿ,·,éf}ffj...
fAf<,đŽQ□Æ,μ,Ä,,¾,¾,¾,č□B

2 fŠf,□[fg fAfNfZfX fT□[frfX,đ X.25 —p,É□Ä□□¬,μ,Ü,·□B□uf_fCf,,f<fAfbfv flfbfgf□□[fN,đ□Ä□\
□¬,·,é□v,đŽQ□Æ,μ,Ä,,¾,¾,¾,č□B

ŠÖ~A□€-Ú

X.25 ,lfpf%of□□[f^,đ□Ÿ‘è,·,é

X.25 ,ÉŠÖ,·,éfgf%ofuf<fVf...□[fefBf“fO

X.25 ,lfpf%of[f^,ďŸ'è,.,é

1 f_fCf,,f:fAfbfv flfbfgf[fN,ÅA“d~b’ fGf“fgfŠ,ď‘l’đ,μAŽŸ,É [,»,ì¼] ,ďNfŠfbfN,μ,Ä [fGf“fgfŠ,Æf,fff€ ,lfvf[fpfefB,ì•ÒW] ,ďNfŠfbfN,μ,Ü,·B

2. [X.25] f^fu,ÅAX.25 flfbfgf[fN fvfofCf_,ď‘l’đ,μAfŠf,[fg fT[fo[,ì X.25 fAfhfCfX,ď“ü—í,μ,Ü,·B

3. •K—v,É%ž,¶,ÄA[f+U[ff[f^] f{fbfNfX,“ ,æ,Ň [<@“\] f{fbfNfX,É“K∅,Èî•ň,ď“ü—í,μ,Ü,·B

ŠÖ~A€—Ú

X.25 ,lŠT—v

X.25 ,ÉŠÖ.:.éfgf%ofuf<fVf...[fefB“fO

ISDN ,išT—v

“□□#T□□[frfX fffWf^f< flfbfgf□□[fN (ISDN) ,đŽg,κ,Æ□A“d~b
%oň□ü,Æ”ä,x,Ä’É□M’—“x,ā,«,í,β,Ä□,‘—,É,È,è,Ü,·□B’É□í,ì“d~b%oň□ü,Ä,í□A^ê”É“l,È’É□M’—“x,í-^•b 9600
frfbfg (bps) ,Ä,·,ª□AISDN %oň□ü,ì’É□M’—“x,í□A64Kbps ,Ü,½,í 128Kbps ,Ä,·□BŽA-±,Ä,±,ì,æ,κ
,É□,‘—’É□M,ª•K—v,Æ,È,é—á,Æ,μ,Ä,í□A’½,,ì□Y’íŽĐ^ö,đ•ø,ì,Ä,ç,éŠé<Æ,â□A’â—È,ì’É□M,đ”ª,κŠÇ—
□□ì<Æ,đfŠf,□[fg,©,ç□s,κ•K—v,ª, ,é□ê□† (,½,Æ,ì,í□A—£,ê,½□ê□Š,É□Y’u,³,ê,Ä,ç,é□□□[fNfXfe□[fVf†f“,Éf
ftfgfEfFfA,đfCf“fXfg□[f<,·,é□ê□†,È.Ç) ,ª□l,ì,ç,ê,Ü,·□B

ŠÖ~A□€-Ú

ISDN f□□[fh,đfCf“fXfg□[f<,·,é

ISDN ,ì<@“\,đ□Y’è,·,é

ISDN ,ÉŠÖ,·,éfgf%ouf<fVf...□[fefBf“fO

ISDN f|f|fh,đfCf“fXfg|f<,·,é

1 ISDN (“|f|T|f|fX fffWf^f< flfbfgf|fN) f|f|fh,đfRf“fsf...|f^,ÉfCf“fXfg|f<,μ|AfRf“fsf...
|f^,đ<N“@,μ,Ü,·|B

• i|” ,ì ISDN f|f|fh,đfCf“fXfg|f<,·,éê|‡,Í|AISDN fhf%ofCfo,đfCf“fXfg|f<,μ,½Æä,ÅfRf“fsf...
|f^,đ<N“@,μ,È,̄,ê,î,È,è,Û,¹,ñ|B|<N“@,μ,È,ç,Æ|AfŠf,|fg fAfNfZfX,đ ISDN —p,É|
|—,·,é,Æ,«,É|A,·,x,Ä,ì~—p%oA“\,È ISDN f|f|fg,^a•\Ž|,³,ê,È,çê|‡,^a, ,è,Û,·|B

Šù,É RAS ,Æ ISDN ,^a|—,³,ê,½fRf“fsf...|f^,Å|ARAS ,đ|í|œ,μ|A|ÄfCf“fXfg|f<,·,éê|‡,Í|ARAS
,ìfzfbfgfAfbfv,Å ISDN f|f|fg,đ'Ç%oA,Å,«,Û,¹,ñ|B|æ,É ISDN fhf%ofCfo,đ|Ä|—,μ,Ä,©,ç|ARAS
,đ|ÄfCf“fXfg|f<,μ|AISDN f|f|fg,đŽg,π,æ,π,É|Ä|—,μ,È,̄,ê,î,È,è,Û,¹,ñ|B

'| CEÄ,çf^fCfv,ì DigiBoard f|f|fh,Í|A^ê•”,ìfRf“fsf...|f^,Á,Í“@|ì,μ,Û,¹,ñ|B|Å|V,ì PCIMAC-ISA
DigiBoard f|f|fh (fvfŠfAf<“Ó|‡,^a A14308 ^È|~ ,ì,à,ì) ,^a,È,çê|‡,Í|ADigiBoard ,É~A—
|,μ,ÄÆđŠ·,μ,Ä,à,ç,Á,Ä,,³/₄,³,ç|B

2 fŠf,|fg fAfNfZfX fT|f|fX,đ ISDN —p,É|Ä|—,μ,Û,·|B|uf_fCf,·f<Afbfv flfbfgf|fN,đ|Ä|
|—,·,é|v,đŽQ|Æ,μ,Ä,,³/₄,³,ç|B

ŠÖ~A|€-Ú

ISDN ,ì<@“\,đ|Ý'è,·,é

ISDN ,ì<@”\,đŸ’è,·,é

ISDN ,lfpf%of□□[f^,đ□□-·,·,é,É,Í

1 f_fCf,,f<fAfbfv flfbfgf□□[fN,Å□A“d~b’ fGf“fgfŠ,đ‘l’đ,μ□AZŸ,É [,»,’¼] ,đfNfŠfbfN,μ,Ü,·□B

2 [fGf“fgfŠ,Æf,fff€,lfvf□fpfefB,ì•Ö□W] ,Ü,½,í [fGf“fgfŠ,Æf,fff€,lfvf□fpfefB,ì•i□»] ,đfNfŠfbfN,μ,Ü,·□B

3 [Šî-{} f^fu,ì [f_fCf,,f<•û-@] f{fbfNfX,Å□AfffofCfX,đ‘l’đ,μ□AZŸ,É [□□-] ,đfNfŠfbfN,μ,Ü,·□B

4 [ISDN ,ì□□-] f_fCfAf□fO f{fbfNfX,Å□A%oñ□ü,ìŽí—p,Æ,Ü,©,lf□□[fhfEfFfA,ì<@”\,đŸ’è,μ,Ü,·□B

► ISDN fAf_fvf^,đ□□-□A,Ü,½,í□V,μ,č ISDN fAf_fvf^,đCf“fXfg□[f<,·,é,É,í□AfRf“fgf□□[f< fpflf<,ì [flfbfgf□□[fN] fAfCfRf“,đf_fuf<fNfŠfbfN,μ,Ü,·□B[fAf_fvf^] f^fu,Å□AfAf_fvf^,đ‘l’đ,μ□AZŸ,É [‘Ç%oÁ] ,Ü,½,í [fvf□fpfefB] ,đfNfŠfbfN,μ,Ü,·□BŠeflfvfVf+f“,ì□Ú□x,É,Á,č,Á,í□Af_fCfAf□fO f{fbfNfX,ì•Ž‘t,É [fwf<fv] ,đfNfŠfbfN,·,é,©□A,Ü,½,í F1 fL□[,đ%oŸ,μ,Ä,,¾,¾,č□B

ŠÖ~A□€-Ú

fGf“fgfŠ,ì‘Ç%oÁ□A•Ö□W□A•i□»,đ□s,ᄀ

ISDN ,ìŠT—v

PPTP ,İŞT—v

'É□□ARAS fT□[fo□[. ,İ□APSTN□AISDN□A,Ü,½,Í X.25 flfbfgf□□[fN,É□Ú'±,³,ê,Ä,ç,Ü,·□BfŞf,□[fg fT□[fU□[. ,İ□A,±,ê,ç,İflfbfgf□□[fN,ð%oî,µ,ÄfT□[fo□[. ,ÉfAfNfZfX,Ä,«,Ü,·□B,³,ç,É□ARAS ,Ä,İ□AV,µ,çfefNfmf□fW,Ä, ,é PPTP (Point-to-Point Tunneling Protocol□F flfCf"fg fc□[flfCf"fg fgflfŞf"fo fvf□fgfRfç) ,ðŽg,κ,±,Æ,É,æ,è□AfCf" f^□[flfbfg,ð%oî,µ,ÄfT□[fo□[. ,ÉfAfNfZfX,·,é,±,Æ,à,Ä,«,Ü,·□B

PPTP ,İ□Af}fçf` fvf□fgfRfç,Ì VPN (Virtual Private Network□F %o¼'zvf%ofCfx□[fg flfbfgf□□[fN) ,ðfTf] □[fg,·,é□V,µ,çflfbfgf□□[fN fvf□fgfRfç,Ä,·□BfŞf,□[fg fT□[fU□[. ,İ□AISP (Internet Service Provider□F fCf" f^□[flfbfg fT□[fRfX fvf□ofCf_) ,Éf_fCf,,fçCf" ,·,é,©□A,Ü,½,İfCf" f^□[flfbfg,É'¼□Ú□Ú'±,·,é,± ,Æ,É,æ,è□AfCf" f^□[flfbfg,ð%oî,µ,ÄŠéçÆ"àflfbfgf□□[fN,É^A'S,ÉfAfNfZfX,Ä,«,Ü,·□BPPTP ,É,İ□AZÿ,ì,æ,κ,È —~"_,a, ,è,Ü,·□B

"`'—,É—v,·,é"i—p,ì□íCE , PPTP ,Ä,İ□A'·ç—É'É~b,Ü,½,İftfŞ□[f_fCf,,fç fT□[fRfX,ì'ä,í,è,É□A□Ú'±□æ,Æ,µ,ÄfCf" f^□[flfbfg,ðŽg,ç,Ü,·□B,» ,ì,½,ß□A" `—,É—v,·,é"i— p,ð'ä•□,É□íCE ,Ä,«,Ü,·□B

fñ□[fhfEjfFA,É—v,·,é"i—p,ì□íCE , PPTP ,Ä,İ□Af,fff€ ,Æ ISDN fj□[fh,ð RAS fT□[fo□[. ,ç,çª—É ,µ□Af,fff€ fvf□[fç,Ü,½,Í'É□MfT□[fo□[. ,É□Y'u,Ä,«,Ü,·□B,» ,ì,½,ß□AŞÇ—□ŽÖ,ª□w"ü,µ□AŞÇ— □,·,éfn□[fhfEjfFA,ª□,É,,É,è,Ü,·□B

ŞÇ—□ä,ì•%o'S,ìCEyCE , PPTP ,ðŽg,κ,Æ□AŞÇ—□ŽÖ,İ□AfŞf,□[fg fAfNfZfX flfbfgf□□[fN,ð RAS fT□[fo□[. ,Ä□W'+ "I,ÉŞÇ—□,µ□A•ÚCEì,Ä,«,Ü,·□BŞÇ—□ŽÖ,İ□AfT□[fU□[fAf]fEj"fg,¾, ,ðŞÇ—□,·,é,ì,æ,- □A•; ŽG,Éfn□[fhfEjfFA□□→,ðfTf]□[fg,·,é•K—v,Í, ,è,Ü,¹,ñ□B

fZfLf...fŞfefB,ìCEü□ä □äçL,ì—~"_,É%oÁ,İ,ÄfCf" f^□[flfbfg,ð%oî,µ,½ PPTP □Ú'±,Ä,İ□A^Ä□t %o» ,É,æ,Ä,ÄfZfLf...fŞfefB,ª•ÚCEì,³,è,Ü,·□B,Ü,½□APPTP ,İ□A, ,ç,ä,éfvf□fgfRfç (TCP/IP□AIPX□ANetBEUI ,É,Ç) ,Ä" ©□i,µ,Ü,·□B

ŞÖ~A□€—Ü

PPTP ,İ"K—p

PPTP ,ì“K—p

PPTP ,í□AIP flfbfgf□□fN,ð%ôî,μ,Ä PPP fpfPfbfg,ðf<□[fefBf“fO,·,é•û-@,ð'ñ<ÿ,μ,Ü,·□BPPTP ,Ä,í□Af}f<f`fvf□fgfRf<,lfjfvfZf<%»É,æ,Á,Ä□A, ,ç,ä,éŽí—b,lfpfPfbfg,ðflfbfgf□□fN,ð%ôî,μ,Ä'— □M,Ä,«,Ü,·□B,½,Æ,í,í□AfCf“f^□flfbfg,ð%ôî,μ,Ä IPX fpfPfbfg,ð'—□M,Ä,«,Ü,·□B

PPTP ,Ä,í□AŠù'¶,ìŠé<Æ“àflfbfgf□□fN,ð PSTN□AISDN□A,Ü,½,í X.25 flfbfgf□□fN,Æ,μ,Ä^μ,ç,Ü,·□B,±,ì,æ,κ ,È%¼'z WAN ,í□AfCf“f^□flfbfg,È,Ç,ìEö<κ,ìÊ□MŽ-<ÆŽÒ,É,æ,Á,ÄfTf|□[fg,³,è,Ü,·□B

,Ü,©,ì WAN fvf□fgfRf<,Æ PPTP ,ð”äŠr,μ,Ä,ÿ,Ü,μ,ä,κ□BPSTN□AISDN□A,Ü,½,í X.25 ,ðŽg,κ□ê±□AfŠf,□[fg fAfNfZfX fNf%ofCfAf“fg,í□ACEðŠ·-Ô,ð%ôî,μ,Ä RAS fT□[fo□[Æ PPP □Ú'±,ðŠm—š,μ,Ü,·□B□Ú'±,ªŠm— š,³,è,é,Æ□APPP fpfPfbfg,í□ACEðŠ·-Ô,ð%ôî,μ,Ä RAS fT□[fo□[É'—□M,³,è□A'—□M□æ,ì LAN ,Éf<□[fefBf“fO,³,è,Ü,·□B

,±,è,É'í,μ,Ä□ACEðŠ·-Ô,ì'ä,í,è,É PPTP ,ðŽg,ç□AWAN ,ð%ôî,μ,ÄfpfPfbfg,ð'—□M,·,é□ê±,í□ATCP/IP ,È,Ç,lfgf %of“fXf|□[fg fvf□fgfRf<,ðŽg,ç□A%¼'z WAN ,ð%ôî,μ,Ä PPP fpfPfbfg,ð RAS fT□[fo□[É'—□M,μ,Ü,·□B

ft□[fU□[ÆŠé<Æ,í□A'·<—£,lf_fCf,,f<fAfbfv□Ú'±,ì'ä,í,è,ÉfCf“f^□flfbfg,ðŽg,κ,±,Æ,É,æ,è□A“`—,É— v,·,é”i—p,ð□ß-ñ,Ä,«,Ü,·□B

Žÿ,É□APPTP ,ìŽg,ç•û,É,Ä,ç,Ä□à-¾,μ,Ü,·□BPPTP ,ðŽg,κ,É,í□AŠO•”,lf_fCf,,f<fAfbfv flfbfgf□□fN,ð—~ — p,·,é•û-@□AfCf“f^□flfbfg,ð%ôî,μ,ÄfNf%ofCfAf“fg,É'¼□Ú□Ú'±,·,é•û-@□A,“,æ,Ñ ISP ,ð%ôî,μ,ÄfNf %ofCfAf“fg,É□Ú'±,·,é•û-@,ª, ,è,Ü,·□B

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ŠO•”,lf_fCf,,f<fAfbfv flfbfgf□□fN,Æ PPTP

fCf“f^□flfbfg,ð%ôî,μ,½Šé<Æ“àflfbfgf□□fN.Ö,ì^À'S,ÈfAfNfZfX (%¼'zfvf%ofCfx□[fg flfbfgf□□fN)

ŠO” ,lf_fCf,,f-fAfbfv flfbfgf[]fN,Æ PPTP

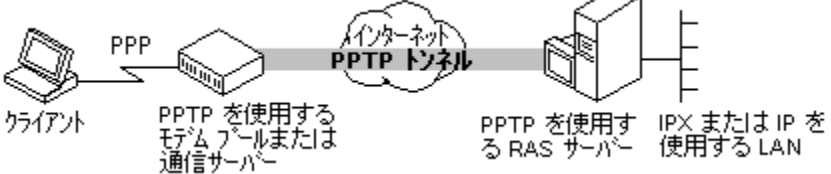
f_fCf,,f-fAfbfv,É•K—v,É'ÉM—pfn[]fhfEjFfA,íA•žG,ÅA“KØ,É“[]ž,è,Ä,ç,È,çê[]ž,è,è,Ü,·B,Ü,½A' åK-Í,ÉŠéÆ,Å Windows NT RAS fT[]fo[][,žg,æ,É,íAf,fff[]AfVšfAf·fRf“fgf[]f %A,“,æ,Ñ'½”,)lP[]fuf<,æ•K—v,Å,·B,ž,ç,ÉAV.34 ,Æ ISDN ,lf_fCf,,f-fAfbfv%ñü,ðCE—|“l,É— p,·,é,½,ß,ì“è“l,É•ù-@,ð'ñ<ÿ,·,é,fšf...[]fVfž“,í'½,, ,è,Ü,¹,ñB

'½,,)ŠéÆ,Å,íAfobfNf{[]f“ flfbfgf[]fN,Ö,lf_fCf,,f-fAfbfv fAfNfZfX,ðŠO”<Æž,É'íð,·,éCEXü,è,è,è,Ü,·B,»,)è[]žA“i—pCE—|,æ,[]A-â'è,É'í^ ,·,é•K—v,è,è,ç,æ ,l,É[]AfVf[]fgfRf<,É[]SCEÀ,è,È,[]A^À'S[]«,ðŠm•Ü,Å,«,é,Æ,ç,æ“_[]d—v,Å,·B,Ü,½AŠù'¶,lf_bfgf[]fN fAfhfCEfX,ìžw'è•ù-@,ð•íX,·,é•K—v,è,è,ç,Æ,ç,æ“_[]d—v,Å,·BfT[]fRfX fVf[]fofCf_,íA,±,ì,æ,æ ,ÉŠéÆ,lfj[]fY,ð[]APPTP ,É,æ,é%¼'z WAN ,Å-ž,½,·,±,Æ,è,Å,«,Ü,·B

PPTP ,Å,íARAS fT[]fo[][,©,çf,fff[]fv[]f<,ð•è—f,·,é,±,Æ,É,æ,èAŠO” ,lf_fCf,,f-fAfbfv fT[]fRfX,ð—~ p,µ,½,èAŠéÆ“à,lf_n[]fhfEjFfA,©,ç•—[]“l,É—f,è,½[]è[]Š,É RAS fT[]fo[][,ðY'u,µ,½,è,·,é,± ,Æ,è,Å,«,Ü,·B,½,Æ,è,í,íAf,fff[]Æ“d~b%ñü,ð“d~b%ïžð,èšç—[],·,é,æ,æ,É,µ,Å[]ARAS fT[]fo[][,Å,lf+[]fU[][fAfjEjFf“fg,ðW'+“l,Éšç—[],µ,Ü,·BfGf“fh ft[]fU[][,íA[]Åšñ,è,ì“d~b %ižð,ðCEÀ,Ñ[]o,µ[]AWAN fšf“fN,ð%î,µ,Å Windows NT RAS fT[]fo[][,É[]Ú'± ,µ[]AŠéÆ“àflfbfgf[]fN,ÉfAfNfZfX,µ,Ü,·B

,±,ì•ù-@,É,æ,é,fšf...[]fVfž“,Å,íAŠù,ÉžA[]Ñ,ì,·,é PPP ,)“FØA^Å[]+%»[]A,“,æ,Ñ^k,lfefNfmf[]fW,ðŠ^ —p,µ,Ü,·B

žÿ,Éž!,·,í)[]APPTP ,)žg—p—á,ðž!,µ,Å,ç,Ü,·B,±,ìè[]ž[]ARAS fnf%ofCfAf“fg,É,í PPTP fVf[]fgfRf<,í•K— v, ,è,Ü,¹,ñBfNf%ofCfAf“fg,íAf,fff[]fv[]f<,Ü,½,í'É[]MfT[]fo[][,É PPP []Ú'± ,·,é,¾, ,Å[]í,ÿ,Ü,·B'É[]MfT[]fo[][,Ü,½,lf,fff[]fv[]f<,Å,íARAS fT[]fo[][,Æ'ÉM,·,é,½,ß,É PPTP ,ðžA'•,µ,È, ,è,í,È,ç,È,ç,±,Æ,É'[]Ó,µ,Å,,¾,¾,ç[]B



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fCf“f^[]flfbfg,ð%î,µ,½ŠéÆ“àflfbfgf[]fN,Ö,ì^À'S,ÉfAfNfZfX (%¼'zfvf%ofCfx[]fg flfbfgf[]fN)

fcf" f^ [flfbfg, δ%oi, μ, ½Šé<Æ" àflfbfgf [fN, Ö, ì^À'S, ÈfAfNfZfX (%o¼'zfvf%ofCfx [fg flfbfg [fN)

WAN fhf%ofCfo,Æ,μ,Ä PPTP ,àÿ'è,³,è,Ä,ç,é RAS fNf%ofCfAf"fg, íAfCf" f^ [flfbfg, δ%oi, μ, Ä Windows NT RAS fT [fo [l, ÉÚ'±, ,é, ±,Æ,É,æ,è AfŠf, [fg, ì LAN [ã, ìž'CE¹, ÈfAfNfZfX, Å, «, Ü, ·B, ±, ìè [AŽÿ, ì— á, Åž!, ,æ, x, È AfCf" f^ [flfbfg, É'¼ÚÚ'±, ,é, ·ú-@,Æ [AISP ,Éf_fCf,,f<, ,é, ·ú-@, ì 2 ,Ä, ì·ú-@, ,è, Ü, ·B [Å%o, ì·ú-@, Ä, í AfCf" f^ [flfbfg, É'¼ÚÚ'±, μ, Ä, ç, é fNf%ofCfAf"fg, , RAS fT [fo [l, ì" Ò [t, ðf_fCf,,f<, μ, Ü, ·B fNf%ofCfAf"fg'x, ì PPTP , í AfCf" f^ [flfbfg, ð'É, è"², ,éfgf"flf<, ðì, è [APPTP , ,æ—LCEø, Èÿ'è,³,è, Ä, ç, é RAS fT [fo [l, ÉÚ'±, μ, Ü, ·B fT [fo [l, É" FØ,³,è,é,Æ [AfNf %ofCfAf"fg, íŠé<Æ" àflfbfgf [fN, ÈfAfNfZfX, Å, «, Ü, ·B Žÿ, ì [A, ±, ì—lžq, ðž!, μ, Ä, ç, Ü, ·B ' [fCf" f^ [flfbfg, Ö, ì'¼ÚÚ'±,Æ, í [AISP ,δ%oi,³, ,É A'¼ÚÚ IP fCfxf<, ÅfAfNfZfX, ,é, ±,Æ, ð^Ó- ;, μ, Ü, ·B (, ½,Æ, ì, ì A^è" , ìfzfef<, Ä, í AfC [fT flfbfg fP [fuf<, ðžg, Ä, ÄfCf" f^ [flfbfg, É'¼ÚÚfAfNfZfX, Å, «, Ü, ·B)



2 "Ö-Ú, ì·ú-@, Ä, í A" , ì<@ "\, ðžÀCE» , ,é, ½, B, È AfCf" f^ [flfbfg, É'¼ÚÚ'±, ,é, ä, ì, è, È ISP ,ðCEÄ, Ñ [o, μ, Ü, ·B fNf%ofCfAf"fg, í A [Å%o, È ISP ,ðCEÄ, Ñ [o, μ, Ü, ·B ISP ,Æ, ìÚ'±, ,æŠm—š,³,è,é,Æ [AŽÿ, ÈfNf%ofCfAf"fg, í RAS fT [fo [l, ðCEÄ, Ñ [o, μ [APPTP fgf"flf<, ðŠm—š, μ, Ü, ·B



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ŠÖ" , ìf_fCf,,f<fAfbfv flfbfg [fN,Æ PPTP

fZfLf...ššfefB,ÉŠÖ,.,é'□^Ó" _

PPTP fgf“fjf<,đ%oi,μ,Ä'—□M,³,é,éff□[f^,Í□APPP fpfPfbfg,ÉfjfvfZf<%o»,³,é,Ü,·□BRAS ,Á,Í□A^Ä□+%o»,đfTf|
□[fg,μ,Ä,č,é,½,ß□Afff□[f^,Í^Ä□+%o»,³,é,Ü,·□BRAS ,Í□ARSA RC4 ,",æ,Ñ 40 frfbfg fZfbfVf#f“
fL□[.,É,æ,éfof<fN ff□[f^Ä□+%o»,đfTf|□[fg,μ,Ä,č,Ü,·□BPPP □Ú'±,ìŽž“_.,Á□ARAS fNf%ofCfAf“fg,Æ Windows
NT RAS fT□[fo□[.,İŠÖ,Á^Ä□+%o»•úŽ®,İfjSfVfG□[fVf#f“,°□s,í,é,Ü,·□B

PPTP ,Á,Í□AfpfXf□□[fh“F□Øfvf□fgfRf<,Æ“ü—Í—v<□nf“fhfVfFfCfN“F□Øfvf□fgfRf<,ì^Ä□+%o»fAf<fSfšfYf€
,đŽg,č,Ü,·□B

PPTP fx□[fX,İfššf...□[fVf#f“,Á,Í□A^Ä□+%o»,³,é,½ PPP fššf“fN,đfCf“f^□[fifbfg□ă,ÉŠm—š,Á,«,é,¾,¯,Á,È,-
□AfCf“f^□[fifbfg,đfifbfgf□□[fN fojbfNf{□[f“,Æ,μ,Ä□AIPX ,Æ NetBEUI ,İfššf.□[fg fAfNfZfX fgf
%oftfBfbfN,đ“]—,.,é,±,Æ,à,Á,«,Ü,·□BPPTP ,Á,Í□APPP fpfPfbfg,đfjfvfZf<%o»,μ□A^Ä□+%o»,.,é,±
,Æ,É,æ,è□ATCP/IP ,Á'—□M,Á,«,é,æ,α,É,.,é,ì,Á□AIPX fgf%oftfBfbfN,đ“]—,.,é,±
,Æ,à,Á,«,Ü,·□B,μ,½,²,³,Á,Ä□APPTP ,É,æ,éfvššf...□[fVf#f“,Á,Í□ALAN fvf□fgfRf<,đ TCP/IP ,ÉCEÀ'è,.,é•K—
v,í, ,è,Ü,¹,ñ□B

ŠÖ~A□€-Ú

PPTP ,đfCf“fXfg□[f<,.,é

fCf“f^□[fifbfg.É.æ,é•s□³.ÉfAfNfZfX,©.ç RAS fT□[fo□[.,đ•ÚCEi,.,é

PPTP ,đfCf“fXfg□[f< ,·,é

PPTP fgf“fjf<,đŠm—š,·,é,É,í□ARAS fT□[fo□[(,“ ,æ,ŃfNf%ofCfAf“fg,Ü,½,Í'Ê□MfT□[fo□[) ,É PPTP fhf %ofCfo,đfCf“fXfg□[f<,μ,È,˘,ê,î,È,è,Û,¹,ň□B

PPTP fhf%ofCfo,đfCf“fXfg□[f< ,·,é,É,í

1 fRf“fgf□□[f< fpfjf<,ì [flfbfgf□□[fN] fAfCfRf“ ,đf_fuf<fNfŠfbfN,μ□AZÏ,É [fvf□fgfRf<] f^fu,đfNfŠfbfN,μ,Û,·□B

2 [‘Ç%oÁ] ,đfNfŠfbfN,μ□A[Point To Point Tunneling fvf□fgfRf< fAf_fvf^] ,đ'í,đ,μ,Û,·□B

“z•zftf@fCf<,ìfpfX,đ“ü—í,·,é,æ,α,É<□,β,éf□fbfZ□[fW,ª•\Ž!,ª,ê,½,ç□AfpfX,đ“ü—í,μ□A[‘±□s] ,đfNfŠfbfN,μ,Û,·□B

3 PPTP ,Å—~—p,Å,« ,é,æ,α,É,·,é□Ú'± (%o¼'zfvf%ofCfx□[fg flfbfgf□□[fN]) ,ì□“ ,đ“ü—í,μ,Û,·□B

RAS ,ìfZfbfgfAfbfv,ªŠjŽn,ª,ê□APPTP fvf□fgfRf<,ª RAS ,É'Ç%oÁ,ª,ê,Û,·□BPPTP fvf□fgfRf<,đfCf“fXfg□[f<,·,é□[fg,đ'í,đ,μ□A[OK] ,đfNfŠfbfN,μ,Û,·□B

4 PPTP ,ì□□¬,đ—LCEø,É,·,é,É,í□AfRf“fsf...□[f^ ,đ□Ä<N“ © ,μ,È,˘,ê,î,È,è,Û,¹,ň□B

ŠÖ~A□€—Ú

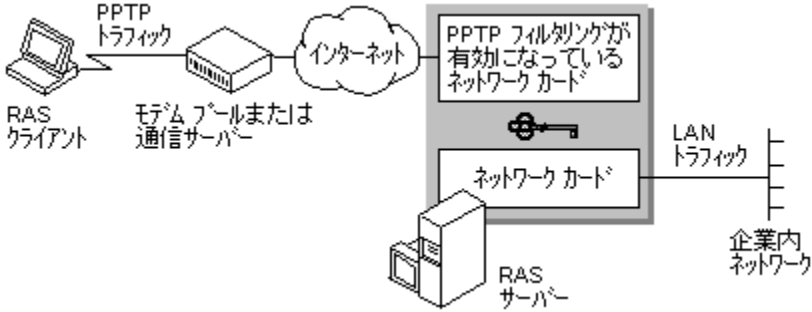
fZfLf...fŠfefB,ÉŠÖ,·,é'□^Ó“

fCf“f^□[flfbfg,É,æ,é•s³,ÈfAfNfZfX,©,ç RAS fT□[fo□[,đ•ÛCE),·,é

fcf" f^ [flfbfg, É, æ, é • s [3, ÈfAfNfZfX, ©, ç RAS fT [fo [L, ð • ÜCEì, ., é

PPTP ftfbf<f^fŠf"fo, ðŽg, x, AE [A' 'ð, μ, ½flfbfg [[fN fAf_fvf^, ð, Ü, ©, ì, ., x, Ä, lfvf [fgfRf<, Å— —p, Å, «, È, ç, æ, x, É [Y' è, μ [APPTP fpfPfbfg, μ, © 'É%oB, Å, «, È, ç, æ, x, É, ., é, ±, AE, a, Å, «, Ü, . [B

PPTP ftfbf<f^fŠf"fo, a-ð—§, Ä, ì, [Af}f<f`fz [f€ fRf"fsf... [f^, ì [è [±, Å, . [B, ½, AE, ì, [A1, Ä, lfvf [fgf [fN fAf_fvf^ (PPTP ftfbf<f^fŠf"fo, a—LCEø, È, È, Ä, Ä, ç, é) , ðfCf" f^ [flfbfg, É [Ü' ±, μ [A • È, lfvf [fgf [fN fAf_fvf^, ðŠé<Æ" àflfbfg [[fN, É [Ü' ±, μ, Ü, . [BŠé<Æ" àflfbfg [[fN, ÌŠO' x, lfvf%o fCfAf"fg, Ì [APPTP, È, æ, è [AfCf" f^ [flfbfg, ð%oì, μ, Äf}f<f`fz [f€ fRf"fsf... [f^, É [Ü' ±, μ [AŠé<Æ" àflfbfg [[fN, È^A'S, ÈfAfNfZfX, Å, «, Ü, . [B, ±, ì [è [± [AŠé<Æ" àflfbfg [[fN, ÈfAfNfZfX, Å, «, éfgf %o fBfbfN, Ì [ARAS "F [Ø, È, æ, Ä, Ä" F [Ø, ³, è, ½Nf%o fCfAf"fg, ©, ç — [M, ³, è, é PPTP fpfPfbfg, ¾, 7, Ä, . [B ' [RAS fNf%o fCfAf"fg, Ì [AfCf" f^ [flfbfg, È' ¼ [Ü [Ü' ±, μ, Ä, à [AfT [lrfX fvf [ofCf_ , É [Ü' ±, μ, Ä, à, ©, Ü, ç, Ü, 1, ñ [BPPTP, ðŽg, x, ½, B, È [A—¼ • ù, É [Ü' ±, ., é • K—v, Ì, , è, Ü, 1, ñ [B



PPTP ftfbf<f^fŠf"fo, ð—LCEø, È, ., é, È, Ì

- 1 fRf"fgf [[f< fpf [f<, ì [flfbfg [[fN fAfCfRf" , ðf_fuf<fNfŠfbfN, μ [AZÿ, È [fvf [fgfRf<] f^fu, ðfNfŠfbfN, μ, Ü, . [B
- 2 [TCP/IP fvf [fgfRf<] , ð' 'ð, μ [A [fvf [pfefB] , ðfNfŠfbfN, μ, Ü, . [B
- 3 [IP fAfhfCEfX] f^fu, ì [[Ü [x] , ðfNfŠfbfN, μ, Ü, . [B
- 4 [fAf_fvf^] f {fbfNfX, Å [APPTP ftfbf<f^fŠf"fo, ð—LCEø, È, ., éflfbfg [[fN fAf_fvf^, ð' 'ð, μ, Ü, . [BPPTP ftfbf<f^fŠf"fo, ì [Y' è, a"K—p, ³, è, é, ì, [A' 'ð, μ, ½flfbfg [[fN fAf_fvf^, ¾, 7, Ä, . [B
- 5 PPTP ftfbf<f^fŠf"fo, ð—LCEø, È, ., é, È, Ì [A [PPTP ftfbf<f^fŠf"fo, ð [s, x] f`fffbfN f {fbfNfX, ðflf" , È, μ, Ü, . [B fRf"fsf... [f^, ð [Ä<N" © , ., é, AE [A [Y' è, a—LCEø, È, È, è, Ü, . [B

TCP/IP, ì [[Ü [x, È, Ä, ç, Ä, Ì [ATCP/IP, ìflf" f%o fCf" fvf<fv, ì [uTCP/IP, ì [Ü [xflfvfVf#f" , ð [[Ü [x, ., é, È, Ì [v, ðŽQ [Æ, μ, Ä, , ¾, ³, ç [B

ŠÖ~A [€—Ü

PPTP .ðfCf" fXfg [[f<, ., é
fZfLf...fŠfefB, ÈŠÖ, ., é' [^Ó"

