

CUP $\hat{A} \div A^{\frac{1}{2}}$, $\hat{A} \hat{I} \hat{e} \hat{C} \hat{N} \hat{A} \hat{x}^0$, $\hat{A} \hat{e} \hat{1} \hat{A} \hat{1/4}$ $\hat{o} \hat{n} \hat{1/2} \hat{A} \hat{C}$ $\mu \hat{c} \hat{A} \hat{u} \hat{o} \hat{a} \hat{A} \hat{i} \hat{i} \hat{o} \hat{D} \hat{1/2}$

3ÈÀÇÇö¹, ÀÌµçÄÖ, ±è, í½ö
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Abstract

To have competitive advantage over competing telecommunications services, it is crucial to provide higher value with lower cost. In this study, CUP (Cost-Utility-Preference) chart is developed to analyze the market competition dynamically. It considers both the competition and customers' preference of each service to explain the change of the competitive landscape over time. Conjoint analysis is used for detailed analysis.

Using the chart, we can analyze the currently competing services, predict the future scenarios of the competition, develop new services, and understand the causes of successes or failures of telecommunications services.

1. $\frac{1}{4} \cdot D$

Á·Č°ÀČ Á·Δ°·È·° i ÁÌ·ç·ÀÁóÁó ¾·È·í °æ·ÀÍ·Ç·À
 Á·Ç°mé·ÀÍ °ÀÀÇ µ·ÀÍ·ÇÑ È·ç·é·À» Á·°ø·Ç·Í·é, ¼·ð·ñ·à·ú·À·
 Á·Ç°mé·ÀÇ Á·ð·°·Àù Á·È·¼·À» Á·Ì·ÀÇ·ò ¼·ð ¾·°·ò µ·ç·¾·À·
 Ç·°·À·ò Á·Ì»·ò·Àç (commodity)·È· µ·È·Ù· ÀÌ»·ò·Àç·À· °i·Ý·
 ÀÌ·ç·Ü·Àç °æ·Àí ¼·ð·Ü·Àì ¾·ò·À·¹·ç··Ì·, ±·à·¾·À·°· °i·Ý·
 À·» Ç·ç·Ì·±·° i ¾··À·È·ò µ·È·Ù· Á·¤·ò·, Á·ë·À· ¼··ñ·½·À·ç··æ
 ·ç··ì·ç··µ·À·-¼··À·ü·È·-¼··ñ·½·, | ±·ç··ç··Ì· ¼··µ·À·ü·È·

μῦπόλι¼, ±ά¾·Àº ÁÚ»çÁÇ Á·Ç·ÀÍ ÁÍ»òÁÇ·í µÇ·Àº
 °ÍÀ»¹áÄöÇÍ·À³ë·ÀÇÍ·ç, ÀÌ¹ÝÀüÀ·Í·í·°Ýºú È¿zë
 ÀÇ µÍ ÀàÀÌ °æÀíÀÇ Á÷òÀ» ±, ¼ÇÍ·°µ È·Ù·±x·-·Ç
 ··I, °æÀí·ç·í·éÇÑ °Ø·¶µ ÁÌ µÍ ·í·ÀööÀÇ Á÷òÀ» ÇÔ
 22 °í·ÀÇÍ·À·Í·ÀÌ ÇÉ·äÇÍ·Ù.

2Áy_i^{1/4}· Á CUP Á÷Æ®Áç °33ä°ú ÁÛ¹⁰ ¹æ¹ý_i
 · ëçÍç® ¼³, 1çÍ°í, 3Áy_i^{1/4}· Á Á÷Æ®Áç ÁÛ¹⁰ ¹× °Ð¹⁴®
 ¹æ¹ýÀ_i ç¹ÁçÍ°í, 4Áy_i^{1/4}· Á °á· ÐÀ» , Íµµ· Í ÇÑ· Ù.

2. CUP $\hat{A} \div A^{\circ}$

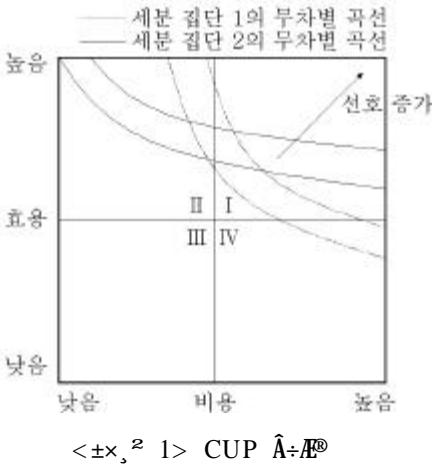
CUP $\hat{A} \div A^{\otimes} A \hat{C}$ े. « $\hat{A} \hat{u} \hat{A} \hat{I}$, $\delta / \hat{A} \hat{A} \hat{I} < \pm x$, $1 > \hat{z} \hat{i}$ $\hat{z} \hat{a}$
 $\hat{A}, \hat{z} \hat{a}$ $\hat{A} \hat{o} \hat{U}$. CUP $\hat{A} \div A^{\otimes} \hat{z} \hat{i}^{1/4} \cdot \hat{A}^{\circ} \hat{n} \hat{z} \hat{e} (\text{cost})^{\circ} \hat{u}$ $\hat{E} \hat{z} \hat{e}$
 (utility), $\pm x, \hat{z} \hat{a} \hat{e} \hat{f}$ (preference), $\pm, \hat{z} \hat{a}^{1/4} \hat{d} \hat{A} \hat{I}$
 $\rightarrow \hat{z} \hat{c} \hat{e} \hat{C} \hat{N} \hat{U}$. $\hat{A} \hat{l} \hat{m} \hat{e} \hat{A}^{\circ} \hat{1/4} \hat{o} \hat{n} \hat{v} \hat{p}$ $\hat{A}^{\circ} \hat{o} \hat{A} \hat{U} \hat{A} \hat{C} \hat{A} \hat{o} \hat{A} \hat{z} \hat{i}^{1/4} \hat{o} \hat{z} \hat{A} \hat{E}$
 $\cdot \hat{I} \hat{f} \hat{o} \hat{1/4} \hat{d} \hat{o} \hat{n} \hat{A} \hat{U} \hat{A} \hat{C} \hat{A} \hat{o} \hat{A} \hat{z} \hat{i}^{1/4} \hat{A} \hat{B} \hat{o} \hat{z} \hat{m} \hat{E} \hat{z} \hat{a}^{1/4} \hat{d} \hat{A} \hat{I} \hat{U}$. $\mu \hat{u} \hat{p} \hat{o} \hat{1/4}$,
 $\hat{o} \hat{n} \hat{z} \hat{e} \hat{A}^{\circ} \hat{o} \hat{z} \hat{Y} \hat{A} \hat{C} \hat{1} \hat{I} \hat{C} \hat{I}, \hat{z} \hat{C} \hat{A} \hat{1/4} \hat{A} \hat{C} \hat{E} \hat{z} \hat{e} \hat{A}^{\circ} \hat{o} \hat{n} \hat{z} \hat{e} \hat{A}^{\circ}$
 $\hat{o} \hat{z} \hat{1} \hat{A} \hat{C} \hat{1} \hat{A} \hat{o} \hat{3} \hat{A} \hat{A}^{\circ} \hat{o} \hat{3} \hat{3} \hat{A} \hat{A} \hat{I} \hat{U}$.

¼ÈF° i µjÀIÇÑ ÁjµéÀ} ï°áÇÑ ¼ÀÌ 1«À÷°° °Í
¼ÀÌ, c ðÀ, ¥ÄE ÀS. Í °¥½ö. Í ¼ÈFµµ° i Áo° i Ç°Ô µÈ
Ù. °30° ¼ oñ½° Á 1ëÀÀµç Á oñjë°ú ÈjçëÄ ÁÁÇ¥
i ÁSÄ i Ç°Ô µÈ Ù. µû¶ó¼° 30° ¼ð°ñÀÜ Á ò ³òÀ°
¼ÈFµµ, | ³aÀ, ³» Á Ái i ÁSÄ i ÇÑ ¼ oñ½°, | ¼ÀÄÇÍ
°Ô µÈ Ù. ±x. ±µ¥, ¼ð°ñÀÜ, ¶Ù °Ù, ¥ ¼ÈFµµ, | °íÀö
±à ¶S°z i °30° ÁÍ, ¶Ù °Ù, ¥ 1«À÷°° °Í ¼ÀÌ Á ÁçÇò
½ö ÁÖ °Ù. CUP Á÷À® Á °3ÀÍ ½öÁØÀÌ ¾Æ ï¶ó ¼/PÐ
Áy °Ù(segment) ¼öÁØ i ¼ oñPÇÍ Á °ÍÀ}, ñÀùÀ, · Í
ÇÍç. Í, °3ÀÍ ½öÁØÀç 1«À÷°° °Í ¼À Á ¼/PÐ Áy °Ù ¼ö
ÁØÀ, · Í ÅëÇò(aggregation)ÇÍ; ©c; èCÑ °Ù.

¥»çºĐ, éži ¼đçñ ¼ºñ½º Á Ú, ¥ºĐži ¼đçñ
¼ºñ½º, Ú žiÀšži ÀöA, ¹ç. ¹º iÀá ÁÁÁº °æži. ¹º ¼
¼º ÁÖ Ú. ¹Yºé. ¹, ¥º»çºĐ, éži Àšžiçñ ¼ºñ½º Á Ú
¥ºĐži ¼đçñ ¼ºñ½º, Ú ž-¾ççñ ÁöÁö, !º iÀöºò
µÈÚ.

¥±»çºÐ, éºú ¥³»çºÐ, éÀº ¥º»çºÐ, é½í ÇØ'çÇÍ'Â

$\frac{1}{4} \cdot \tilde{n}^{1/2} \cdot \tilde{I}$ $\tilde{A}, \tilde{A} \tilde{C} \tilde{C} \tilde{I} \tilde{A} \tilde{o} \tilde{\cdot} \tilde{A} \tilde{A}$ $\tilde{S}, \tilde{o} \tilde{A} \tilde{A} \tilde{I} \tilde{C} \tilde{I} \tilde{A} \tilde{\cdot} \tilde{I} \tilde{\cdot} \tilde{A} \tilde{\cdot} \tilde{I}$
 $\tilde{3}^{\tilde{2}} \tilde{0} \tilde{\cdot} \tilde{0} \tilde{\mu} \tilde{C}, \tilde{C}, \tilde{Y} \tilde{\pm} \tilde{\cdot} \tilde{C} \tilde{O} \tilde{D}, \tilde{e} \tilde{A} \tilde{o} \tilde{\cdot} \tilde{C} \tilde{I} \tilde{A} \tilde{l} \tilde{\cdot} \tilde{E} \tilde{m} \tilde{a} \tilde{\cdot} \tilde{C} \tilde{H} \tilde{a}, \tilde{Y} \tilde{3} \tilde{\cdot} \tilde{C} \tilde{O} \tilde{D}, \tilde{e} \tilde{A} \tilde{o} \tilde{\cdot} \tilde{I} \tilde{\cdot} \tilde{I} \tilde{\cdot} \tilde{E} \tilde{m} \tilde{a} \tilde{\cdot} \tilde{C} \tilde{H} \tilde{a} \tilde{\cdot} \tilde{C} \tilde{0} \tilde{\cdot} \tilde{C} \tilde{H} \tilde{U}.$



CUP Â-Æ®-Â ½Ä°fLAÇ Èä, SÇi µû, ¥ ¼·ñï½pÀÇ »ó
 'ëÅùÄÍ ÅSÄ·jAC µgÅùÄÍ °-È- | ÇYÇöÇÖ ½ô ÄÖÅ,,ç,
 ÄÜ¼ÇÑ ³»¿ëçí 'ëçØ¼-Â ¾ÄÀçÇö ¿Ü(2001a), | Äü°í
 ÇÑ'Ù.

1) **ÄÄÁŁAIĘ® °D>PÀ»** ÄëçÑ °³ÄÌ ¼ÖÄØÄÇ part worth
ÄBÄ¤: °³ÄÌ⁻i 'ëçÑ Á¶»ç, | ÄëçÍ[©] °cÀÚÄÇ È⁻ëë ÇÔ
 ¼ÖÍ part worth, | ÄBÄ¤çÑ'Ù. »^o ï±, ï^{1/4} Ä ÀÌ¹Ý
 ÄuÀ, . Í °Í, ® È°ëµÇ·Ä µi¹A ÇüÄÄÄÇ È⁻ëë ÇÔ°¹ö, |
 »çëçÑ'Ù. ÄÌ °æì, ÄEÄ¤ ¼°ñ^{1/2}i 'ëçØ °³ÄÌÄÌ ÄÀ
 ³c·Ä È⁻ëë°^{1/4} °ñ^{1/2}ÄÇ ¼Ö¹®(attribute)µéÄÇ ¼ÖÄØ
 (level)i 'ëçÑ part worthÄÇ ÇÔÄ, . Í ±, ¼°ñ^{1/2}E'Ù.

2) ¼/4Ø Áy-ÜÀ ÅBÄÅ: °³ÅÍ ½ØÅØÇ °ØI/® °á.ú. Í°Í
 ÁÍ ¼/4Ø Áy-ÜÀ» ÅBÄÅÇ°³½Ù. ÄÄÁ¶ÅLÆ® °ØI/®À» È°
 ¿ëçÑ °Ù³çÇÑ ½ÅÅ ¼/4ØÈ-¹æ¹ýµéÅÌ °³¹ßµç¾ ÄÖ-Ù
 (Green & Krieger, 1991). Part worth_i = eçÑ ±
 Áy °ØI/®À» ÄeçÍ¿À»çÇÑ AE-¼ØÀ» °,ÅÌ-Å °³ÅÍµéÅ»
 ±x. iÈ- ÇÍ¿ ¼/4Ø Áy-ÜÀ» ÅBÄÅÇØ ½ø ÄÖ-Ù.

3) $\frac{1}{4}4\text{D}$ Áy' ÜÀÇ part worth $\tilde{A}\tilde{B}\tilde{A}\tilde{x}$: $\frac{1}{4}4\text{D}$ Áy' Ü_i $\frac{1}{4}\text{D}$
 Çñ °³ÀÍµéÀÇ part worth, | Åeçõçt̄^ç® $\frac{1}{4}4\text{P}\text{D}$ Áy' Ü $\frac{1}{4}\text{D}$
 ÁØÀÇ part worth, | $\tilde{A}\tilde{B}\tilde{A}\tilde{x}\text{ç}\text{ø}^3\text{Ü}$. »óÈF ÁÙ_i è È_jºú
 (interaction effect), | Å-çõ°ÅÄÑ Å³A¹°ÍÁÍ Áy' Ü $\frac{1}{4}\text{D}$
 ÁØÀÇ part worth, | $\tilde{A}\tilde{B}\tilde{A}\tilde{x}\text{ç}\text{ø}^3$ » Å $\frac{1}{4}\pm\tilde{A}$ $\pm\tilde{a}^1\text{Y}$
 (choice-based) ÅÄÁ°ÍÀÍ Å® $\text{ø}^{\frac{1}{4}}\text{P}^{\text{R}}$ $^1\text{æ}^1\text{y}\mu\mu$ ÁÖöö,

(Hair, Anderson, Tatham, & Black, 1998), »ÈÍÀÙÈÀ« È-ÇÔÇÌ·À°æçìÀÙÁ-çìÀÙÁ-µµ¹®À|°ì¹ß»ýçÌç°óÀ°µ¥ÀÌÀÍ,|çÈçà·ÍçÌ¹ç·Í(Lilien, Kotler, & Moorthy, 1992)»ç-±,çì¼À°í·ÁçÍÀö¾ÈÀ·Ù.

4) CUP $\hat{A} \div \text{FPAÇ}$ $\hat{A} \hat{A} \hat{C} \hat{Y} \hat{A} \hat{C}$ $\circ \hat{A} \hat{A} \hat{C}$: $\circ \cdot \hat{I} \hat{A} \hat{A} \hat{C}$ $\circ \cdot \hat{E} \cdot \hat{E}$ $\circ \hat{u} \hat{A} \hat{S}$
 $\cdot \hat{A} \circ \hat{n} \hat{e} \hat{A} \hat{C} \circ \hat{o} \hat{A} \hat{O} \hat{j} \hat{i} \hat{\mu} \hat{u},$ part worth $\hat{A} \hat{C}$ $\circ \cdot \hat{E} \cdot \hat{E}$ $\circ \hat{u} \hat{A} \hat{S}$
 $, \cdot \hat{I}, \frac{1}{4}/4 \hat{I} \hat{A} \hat{A} \hat{C} \circ \cdot \hat{E} \cdot \hat{E} \circ \hat{u} \hat{A} \hat{S} \cdot \hat{A} \circ \hat{n} \hat{e} \hat{A} \hat{A} \hat{C}$ $\circ \hat{U} \hat{C} \hat{N}$ part
 worth $\hat{A} \hat{C} \hat{C} \hat{O} \hat{A} \hat{C}$ $\circ \cdot \hat{E} \cdot \hat{E}$ $\circ \hat{u} \hat{A} \hat{S},$ $\cdot \hat{A} \hat{A} \hat{O} \hat{A},$ $\cdot \hat{I} \hat{C} \hat{N} \hat{U},$ $\frac{1}{4}/4 \hat{D}$
 $\hat{A} \hat{Y} \hat{Y} \hat{U} \hat{O} \hat{O}.$ $\hat{I} \circ \hat{u} \hat{A} \hat{S} \hat{A} \hat{C} \hat{A} \div \hat{A} \hat{I} \circ \hat{I} \hat{B} \hat{Y} \hat{C} \hat{I} \hat{A} \hat{C} \circ \hat{I} \hat{A} \hat{I} \hat{A} \hat{I} \hat{Y} \hat{A} \hat{u} \hat{A} \hat{I}$
 $\circ \hat{C} \cdot \hat{I} \frac{1}{4}/4 \hat{D} \hat{A} \hat{Y} \hat{Y} \hat{U} \hat{O} \hat{O}.$ $\hat{I} \circ \hat{U},$ $\hat{A} \hat{A} \hat{C} \hat{Y},$ $\circ \hat{C} \hat{e} \hat{C} \hat{O} \frac{1}{4}/4 \hat{D} \hat{A} \hat{O} \hat{U}.$

5) 1 « $\hat{A} \div 0^{\circ}$ ° $\hat{1} \frac{1}{4} \pm \hat{A} \hat{C}$ μμ $\hat{A} \hat{A}$ $1 \times 0 \hat{n} \hat{C} \hat{E}$ $\hat{1} \hat{I} \hat{O} \hat{C}$ μμ $\hat{A} \hat{C}$ ° $\hat{D} \frac{1}{4} \hat{P}$: ° \hat{C} $\frac{1}{4} \frac{1}{4} \hat{D}$ Á \hat{Y} ° $\hat{U} 0^{\circ}$. \hat{I} 1 « $\hat{A} \div 0^{\circ}$ ° $\hat{1} \frac{1}{4} \pm \hat{A}$ » μμ $\hat{A} \hat{C} \hat{N} \hat{U}$. 1 « $\hat{A} \div 0^{\circ}$ ° $\hat{1} \frac{1}{4} \pm \hat{A} \hat{O}$ $\frac{1}{4} \pm \hat{E} \hat{F}$ » | μ $\hat{C} \hat{A} \hat{I} \hat{C} \hat{N}$ Á $\hat{I} \mu \hat{e} \hat{A}$ » $\hat{C} \hat{E} \hat{O} \hat{C} \hat{N}$ $\frac{1}{4} \pm \hat{A} \hat{I} \hat{I} \hat{C}$ · \hat{I} , CUP $\hat{A} \div \hat{A} \hat{P}$ » $\hat{O} \hat{j} \hat{i} \frac{1}{4}$ ° \hat{j} · $\hat{I} \hat{A} \hat{a} \hat{O} \hat{U}$ $\frac{1}{4} \hat{A}$ $\hat{A} \hat{A} \hat{A} \hat{C}$ Á $\hat{A} \hat{C} \hat{Y}^o$ $\hat{a} \hat{A} \hat{C}$ Ç $\hat{O} \hat{A} \hat{I}$ μ $\hat{C} \hat{A} \hat{I} \hat{C} \hat{N}$ Á $\hat{I} \hat{A}$ » $\hat{C} \hat{E} \hat{O} \hat{C} \hat{N}$ $\frac{1}{4} \pm \hat{A} \hat{I} \hat{I}$ 1 « $\hat{A} \div 0^{\circ}$ ° $\hat{1} \frac{1}{4} \pm \hat{A} \hat{I}$ μ \hat{E} · \hat{U} . μ $\hat{j} \frac{1}{4} \hat{A}$ Çü $\hat{U} \hat{A} \hat{A} \hat{C}$ È $\hat{C} \hat{E} \hat{E}$ Ç $\hat{O} \frac{1}{4} \hat{A}$, | ° $\hat{j} \hat{A} \hat{C} \hat{I} \hat{E} \hat{A}$, $\hat{I} \hat{C} \hat{I} \hat{E} \hat{A}$, 1 « $\hat{A} \div 0^{\circ}$ ° $\hat{1} \frac{1}{4} \pm \hat{A} \hat{I}$ μ $\hat{I} \frac{1}{4} \pm \hat{C} \hat{U} \hat{A}$, · \hat{I} μ $\hat{E} \hat{U}$. 1 « $\hat{A} \div 0^{\circ}$ ° $\hat{1} \frac{1}{4} \pm \hat{A} \hat{C}$ ± $\hat{A} \hat{E} \hat{I}$ ± \hat{A} , | È $\hat{C} \hat{E} \hat{E} \hat{A} \hat{C}$ ° $\hat{n} \hat{E} \hat{E}$ $\hat{1} \hat{I} \hat{O} \hat{C}$ μμ $\hat{I} \hat{A} \hat{C} \hat{C} \hat{I} \hat{E}$, ° $\hat{n} \hat{E} \hat{E}$ $\hat{1} \hat{I} \hat{O} \hat{C}$ μμ $\hat{A} \hat{A} \hat{U} \hat{A} \hat{S}$ ° $\hat{n} \hat{E} \hat{E} \hat{A} \hat{C}$ » $\hat{o} \frac{1}{4} \hat{A} (\cdot \cdot \cdot \cdot \hat{A}) \frac{1}{4} \hat{A}$ μ $\hat{A} \hat{I} \hat{C} \hat{N}$ $\frac{1}{4} \pm \hat{E} \hat{F}$, | Á $\hat{A} \hat{A} \hat{O} \hat{C} \hat{I} \hat{E} \hat{A}$ À $\hat{S} \hat{C} \hat{N}$ È $\hat{C} \hat{E} \hat{E} \hat{A} \hat{C}$ » $\hat{o} \frac{1}{4} \hat{A} (\cdot \cdot \cdot \cdot \hat{A}) \frac{3}{4} \hat{C} \hat{A}$ » Á $\hat{C} \hat{I} \hat{C} \hat{N} \hat{U}$. 1 \hat{I} ° $\hat{m} \hat{u} \hat{o}$ | $\hat{z} \hat{O} \hat{A} \hat{O}$ $\frac{1}{4} \frac{1}{4} \hat{D}$ Á $\hat{Y} \hat{U} \hat{A} \hat{O}$ · $\hat{I} \hat{E} \hat{I} \hat{E} \hat{m} \hat{u} \hat{A} \frac{1}{4} \frac{1}{4} \hat{D}$ Á $\hat{Y} \hat{U} \hat{A}$ », $\hat{I} \hat{O} \hat{m} \hat{u} \hat{o}$ | $\hat{z} \hat{A} \hat{O}$ Á $\hat{Y} \hat{U} \hat{A} \hat{O}$ Ç $\hat{I} \hat{A} \hat{I} \hat{E} \hat{m} \hat{u} \hat{A} \frac{1}{4} \frac{1}{4} \hat{D}$ Á $\hat{Y} \hat{U} \hat{A}$ », Çü $\frac{1}{4} \frac{1}{4} \hat{C} \hat{N} \hat{U}$.

6) °c ¼ °ñþÀç ÁÁçÝÀç °áÀç: °c ¼ °ñþç i 'éèláµç
 'À part worth °àÀ» È°¿ëçíç © °c ¼ °ñþÀç ÁÁç¥, |
 °Ááççñ' Ù. Cï ³aÀç ¼ °ñþÀç ÁÁç¥ 'À ¼/4ºD Áy' Ù, ¶'Ù
 À·ÀÌ° | ³a°1 µñ¶ó¼ 'À·Àº»óç ¼Àç ÁsÀ|µµ' Ù, ¥ °Í
 ÀÌ ÀÍ¹ÝáùÀÌ' Ù. ¼ °ñþÀç ÁÁç¥, | °áÁççí, é 'À·Àº»Àç
 ± ¼ºÀ° c·I. áµÈ' Ù.

3. CUP $\hat{A} \div A^{\mathbb{R}}$ $\hat{A} \hat{U}^{1/4}$ ^o \times ^o $\hat{D}^{1/4}$ ^o $\hat{A} \hat{C}$ $\dot{\cup}$ ¹

» Åýç | ¼- Å ° i »óÅÇ ç¹, | ÅæÇİç®, CUP Å÷Å®
 , | ÅÛ¼Çİ° ı °DÅ®À » ½óÇaÇİµp. İ ÇÑ Ü.

Aç VDSL (Very-high-data-rate Digital Subscriber Line) à ïçëñ à îáí³ý áçvô ¼ºñ¹ºàç

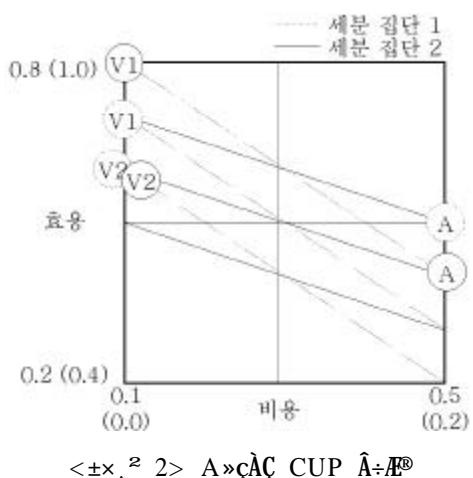
À¹°øÀ» °ÈÄÄÇÌ°í ÀÖ°Ù. °æÄï »ÓÈ°¿ì ´éÇÑ °ÐÌ®À»
½ØÇäÇÌ°í , ¶ÄÉFA Äü·À» °ø, °ÇÌ±à ÀŞÇÌ°ç ðì½±
ÀåÄÇÅÜÄÌ °í°`méÀ» °é»óÀ. Í ÇÑ ÀÄÁ¶ÄÍÆ® °ÐÌ®À»
¼ÇVÄÇÌ°é Ù. A»ç³»ÀÇ Äü¹®° ï¹× ±åÄ, ÀÇ ¼ÀÄå °ÐÌ®
ÄÜ. á, | ¹ÜÀÄÄ, . Í ÇÌ°ç ðì°Ý, ¼Øµµ, °í°`Àòçø, °í° ðì
¼°ñ¹® µìÀÇ 4°`Àò Åòçä ¼Ø¼À» µµÄåÇØ³»°í, ±åÄ,
ÀÇ ADSL µìÀ» ÅëÇÑ Áç¼Ø¼°ñ¹®°ç ðì¹ÀÇ °ç ¼Ø¼ÀÇ
¼ØÅØméÀ» µç½Ä°ç ðì°í. ÀÇÌ°ç Å¶»ç ðì È°ëéÇÒ ¼Ø¼°µé
ÀÇ ¼ØÅØÀ» Å¤ÇÌ°é Ù.

°300 ÅåÄç °í°́ µéÄç part worth, | ÄBÄxÇÑ µÜ,
 \pm^0 Áy °D!/ Φ À» ¼öÇaÇÑ °á°ú <Ç¥ 1>°ú °°ÄÌ ¼/ Φ D Áy
 'Ü 1°ú 2 ζ i 'ëÇÑ part worth, | µµÄåÇÍ ζ ' Ü(part
 worth °aÅ° Ä÷Ä® ÄÜ/ Φ Äç ÄäÄç, | ÄŞÇÍ ζ © ¼±ÄÄµÈ
 °aÄÌ 'Ü).

<C> 1> $\mu\bar{I}$ ¼/PD Áy'Ü Zi 'eçÑ part worth

$\frac{1}{4}\text{D}\frac{1}{4}\varphi$	$\frac{1}{2}\text{D}\frac{1}{2}\emptyset$ \times part worth (Áy Ü 1 / 2)		
° i ° Y	3, , i Ø	4, , i Ø	5, , i Ø
	0.5 / 0.2	0.3 / 0.1	0.1 / 0.0
$\frac{1}{4}\text{D}\frac{1}{4}\mu\mu$	1Mbps	15Mbps	30Mbps
	0.1 / 0.1	0.2 / 0.3	0.4 / 0.5
° I ° Áo Ø Ø	${}^3\text{O}A\frac{1}{2}$	${}^3\text{A}\frac{1}{2}$	
	0.3 / 0.4	0.1 / 0.2	
Áx $\mu\mu$	${}^3\text{O}A\frac{1}{2}$	${}^3\text{O}A\frac{1}{2}$	
	0.1 / 0.1	0.0 / 0.1	

ÀÌ, | ¹ÙÀÁÁ, | Í Çİ̄ ©, Â÷Ä®, | ÀÙ¹/4Çİ̄ µµ. Í ÇÑ`Ù.
 ÕÙú, ¼/4Ð Áý Ü 1ÀÇ °æç i ° i °ÝÀÇ part worth 1ü
 ÅÙ Á 0.1-0.5ÀÇ ¹ÙÅÙÁÌ`Ù. µÙÓ½, °ñçë ÄàÀº
 0.1-0.5ÀÇ ¹ÙÅÙ, | °® ÁÙ. ° i °ÝÀ» ÁÙÜÇÑ ³a, ØÁö
 ¼/4 ¼/4ÀÇ ÇÖÀÇ ¹ÙÅÙ Áí, Â÷Ä®ç i ¼ Èçëë ÄàÀÇ ¹ü
 ÅÙ Á 0.2-0.8ÀÌ`Ù. µçÄÌÇÑ ¹æíýÀ» ¼/4Ð Áý Ü 2ç i
 ÅÙçëÍé, °ñçë ÄàÀº 0.0-0.2, Èçëë ÄàÀº 0.4-1.0ÀÇ
 ¹ÙÅÙ, | °® ÁÙ. µçÄÌÇÑ Äàç i µÍ Áý ÜÀÇ ÁÁÇ¥, | µç
 ¼Àç i ÇÙÇÖÇÑ °ÍÀÌ <±x, ² 2>ç i ³aÅ, ³a ÅÖ Ü. °ÝÈF
 ³EÀØ ¼/4Ð Áý Ü 2ç i èçÑ ÁÁÇ¥, | ³aÅ, ³½ °ÍÀÌ`Ù.



$\pm x^{\circ} \text{Í}, {}^{\circ}\text{c } 1/4\text{D Áy' Üj } 1^{\circ}\text{eC}^{-1} \hat{A}{}^{\circ} \text{ Ó} 1^{1/4} \pm \hat{A}$
 $\text{C} \text{Y} \text{A} \mu \text{C}^{\circ} \text{A } \text{A} \ddot{\text{O}} \text{ U. A} \text{í} \pm \text{A}^{\circ} \text{ Áy' Ü } 1, 1/4 \text{C}^{\circ} \pm \text{A}^{\circ} \text{ Áy' Ü } 2 \text{j }$

‘**ئەقىن** ¹ «**ا**÷^{0°} °**ى**₁**ا**÷**ل**’**ى**. <**قى** 1>**ا**ç ^و**مەل**» **ئەلەل**,
ئ. **ئ** **چىز**[©], **ئ**_ن**جەء**^و**ۇ** **ئەلەل** **اىن** part worth**ا**ç **قۇل****ا** **مەل**
اىلىنىن **ا**_ي**مەل**» **ئ**^و**ا**ç ^و**ىل**’**ى**. **ئ**^ئ**ا** **أ** **ي**^ئ**ل** ^و**ا**ç ^و**ل**
¹ «**ا**÷^{0°} °**ى**₁**ا**÷**ل**’**ى**, **ئ**_د**ىلەل****ا**ç ^و**ل**» ^و**ل**’**ى** **ل**^و**ل**’**ى**. **ل**
^و**ل**’**ى** **ل**^و**ل**’**ى** **ل**^و**ل**’**ى**. **ل**^و**ل**’**ى** **ل**^و**ل**’**ى**.

¼¼Ð Áy' Ü 1Àç ¹¹À° ¼ ¼À° ±Ð° Yçñ ±Àç i±â
 . . . ï Áö' À ¹Yé, Áy' Ü 2'À çÍ, ÇòÀ» ¼ ¼ ¼ Àö' Ü.
 ÁÍ, Áy' Ü 1À° ¼ñçéÀç ¼-È-çí ¹Í° ÇÍ ¼ Áy' Ü 2'À
 »ó ¼éÀüÀ . Í ¼ ¹Í° ÇÍ ¼, Áy' Ü 1À° ¼ñçéÀ»
 ÁBÝÇÍ ¼ À . Íçí çéµá Áy' ÜÀ . Í, Áy' Ü 2'À ÈçéÀ»
 ÁBÝÇÍ ¼ À ÇÍÀÍ çéµá Áy' ÜÀ . Í ¼Ð ûçò ¼ Àö' Ü.

°c 14°ññ/2° Ä Ä÷ADP»óði ðøÄ, · Ä Ç¥Çöµç°í ÄòÙ. Ä Þó°í Ç¥ÄµÈ ðøÄ° ADSL 14°ññ/2°, | 3äÅ, 3½° ÍÄÌ °Ü(A½+Ä, · Ä Ç¥ÄµÈ ðøÄ° Áy'Ü 1, ¼Ç½+Ä° Áy'Ü 2 Äç°æði, | 3äÅ, 3½° Ü.). ADSL 14°ññ/2°Äç ¼ñ/2° ÄÍç° ÄÌ (°i°Ý, ¼ñµµ, °i° ÄöðøÄ°çµµ, °i° ¼°ññ/2°) = (3, , ðø, 1Mbps, 3ÖÄ½, ÄöÄ½)ÄÌ Þó°í °iÄççI, é, Ä÷ADP»óÄç ÄÄç¥ Ä ¼ñ/2° Äy'Ü 1Äç°æði (0.5, 0.1+0.3+0.1) = (0.5, 0.5)°i µç°í, ¼ñ/2° Äy'Ü 2Äç°æði (0.2, 0.1+0.4+0.1) = (0.2, 0.6)ÄÌ µÈ'Ü.

<SY 2> ¼ºÐ Áý' Üºº ¼ºÈºµº' Å ¼ºº ñ½º

$\pm_0 \mathbf{D}$	Ay Ü 1	Ay Ü 2
ADSL vs. VDSL1	ADSL	VDSL1
ADSL vs. VDSL2	ADSL	ADSL, VDSL2

<±×, 2> Í <Ç¥ 2> ï ¼ ¾ È ½ ÄÖÜíÄÌ, A»ç
° i VDSL1À» Á|°øÇØ °æçì, ¼/¶Ð Áy'Ü 1(·Íì ï f
µá)Àº ADSLÀ», ¼/¶Ð Áy'Ü 2(ÇÌÄÌ ï fµá)·Á VDSL1
À» ¼±ÈÇÍ·Á ¹Ý, é, VDSL2, | Á|°øÇØ °æçì, ¼/¶Ð
Áy'Ü 1Àº ADSLÀ» ¼±ÈÇÍÄö, ¼/¶Ð Áy'Ü 2·Á µÍ
¼°ñ/¶çì 'éçØ µçÄÌÇÑ ¼±Èç, | °®®° 0 µÈ'Ù. ±×. -¹ç
·Í, A»ç·Á µÍ °¡ÄöÄç 'é¾È Áß VDSL1À» ¼±ÄÄçÍ·Á
·ÍÀ ¹Ù·Á÷çÍ·Ù.

„ÀÍ, A»ç°í ÀÌ· -ÇÑ °Ð½®¿í ±Ù°ÀÇÍÁó ¾È°í
VDSL2, ¼±ÀÄÇÑ`Ù, é, ADSL°ú Àíç-ÇÑ °æÀíÀ» ¹ú
ÀÌ`Ù °í °ÀÇ ¼±ÀÀá» ¹PÁö, °çÍ°í ¼ÇÆD ¼°ñ½. Í
±Í°í ÁµÉ °í °È½ÀÌ ³°ô µÉ °ÍÀÌ`Ù.

ÄÖÄÈÄÇ ¼°ñ½º Á¹°ø ¼Ä¿ç·Ä ¼¾ºÐ Áý'Ü 2¿ç¼
,, ¿ìÀ§, | ÄðÅöÇÍÁö,, A»ç·Ä Áö½ðÀùÀ·Í °ñ;ë Áý

„À» ÀŞÇÑ ³ë. ÀÀ» ¼öÇàÇİ̄ Á ° ÍÀÌ ÇÈëäÇİ̄ Ü. Èççë
 À» ÀȪ ¹éÇÑ ³öÀÌ ¹ö¶ömu ° ¹°ÝÀ» ³. ÀßÅÓ ³È Á ÇÑ ¼/4
 °Ð Áý Ü 1ÀÇ ¼±ÈF, | ³öÀÓ Á , öÇÑ Ü. ¼ÀÀáÁ Á-À²ÀÇ
 È®-ë, | ÀŞÇØ ¼ Á °ñëëÀ» Áý ° Çİ̄ Á ° ÍÀÌ ÀȪ ¼ÀÇ Áü
 . «ÀÌ µÈ Ü.

4.º á. D

ÁÁÁ¶ÁÍÆ® °Ð/¶/ ¼ ±â¹ýÀ» È°¿éëÇí¿®, Á÷Æ®»ó¿í °ç
¼ °ñ/¶ÀÇ È¿é°éº °ñçéÀÇ »óéëáùÀÍ ÁÙÄí ³»
°í, ¼°øñÀÚÀÇ ¼ÈÈÉ, ÇÝÇöÇÍ±â ÁÙÇÑ ¹«À°º° ¹í¼
À» µµÀäÇÍ°í °æíí °Ð/¶À» ¼øÇàÇÍ Á ¹æ¹ýÀ» ¼³, ¹íÇÍ
¿é ¹Ù. ±x, °í, ¼À±Ô ÁÌÁÍ°Ý Áç/Ø ¼ °ñ/¶, ¼ÇÙÀÇÍ
°íÀÚ ÇÍ Á °í»óÀÇ ±â¾ÀÇ ¿¹, ÁéÇÍ¿®, CUP Á÷Æ®
ÁÙ¼ºÇÍ°í ¹Ù³ÇÑ °çµµ¿í ¼ °Ð/¶À» ¼øÇàÇÍ Á °í
À» ;¹íÀÇí ;¹Ù.

°» ጀ±,ጀ½ °³¹ԲՄԷ CUP Ա÷ԹՊ Ա, ½Ա±Օ ¼օն
 ½ °³¹Բ Աü. «ԱԾ ¼օ, ԾօԱԾ ԱօԾա ԱԲԱԻ ¼օն/³ Հի
 ՚ԵԾՆ օԹՎ ۱× ՝ԱԱԻԱԾ Աü³ ՚ԵԾՆ ՚ԵԱԾ, ¼ԿԹ ԱԾ
 ՚Ա ¼օ օԾՆ ¼օն/³ Հի ՚ԵԾՆ ՚ԵԱԻ օԹՎ պի ՚Ե ՚ԵպԷ
 ՚ԱՕԱ» ՚ԻԱ . ՚Ի ±ա ՚ԵպԷ ՚Ո.

CUP Ä÷Æ®, | ÄÌ¿ëÇÑ °ÐÍ®¹ æ¹ý. ÐÀ» Çö½ÇÄÇ ¹®
 Ä½çí ÄûçëÇÏç® Á¤º. Äö½Å ¼°ñ½çí ¼ zaÅ, za·Å ¼/4
 °Ð Áý' Üºú ¼±ÈÅÄÇ Æ·Åí, ±x ⑧í °æÄiiÅç Äü°³ ÇüÅÄ
 1× ¼°ñ½çí ¼°øºú ¼ÇÆÐ. Í ±Í°áµç·Å, PÄç, ÍÄòçí
 'ëÇÑ ¼ÇÁôÄûÄî ç-±, | ¼öÇàçÍ·Å °ÍÀÌ ÇäÈÄÄÇ ÄÖçä
 ÇÑ ¹æÇäÄÌ µÉ °ÍÀÌ 'Ù.

»Ê¾°øÇÐÈ, Åá°è°øµ¿ÇÐ¼í'ëÈ, ³í¹®Áý, pp.
96-99.

- [2] %ÈÀÇÇÖ ðÜ (2001b), Åë½À ¼·ñ½ÀÇ ¼ÇÄD ðøÀÍ ð½À» ÅëÇÑ »ç¾·¼º Àðº i ±âÁØ °³¹ß, ÇÑ±¹ºú ÇÐ±â½ìø.
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