



Assist Customer's Smartphone Remotely

Introduction











Index

- 1. Overview
- 2. RemoteCall?
- 3. Strong Point
- 4. about RSUPPORT





1. Overview

- Market Trends
- MDM
- Control Remote Smartphone: Practical usage



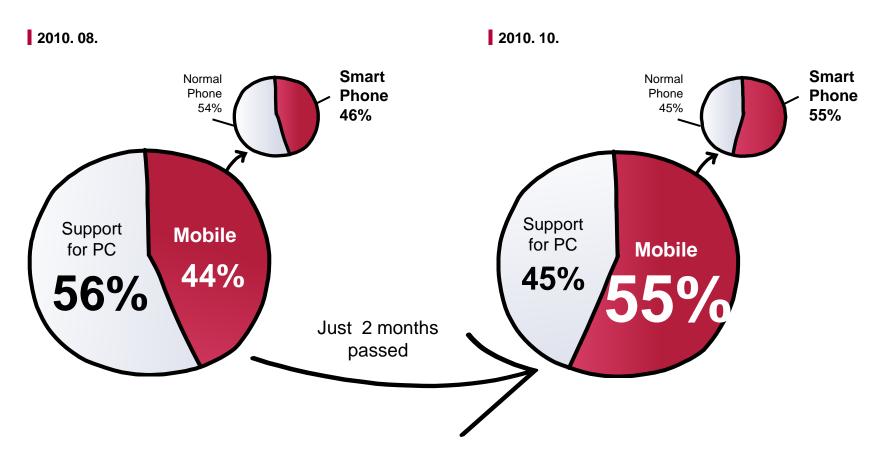


63M Smartphones were sold in the 2nd quarter of 2010 - 50% increase over the previous year

Vendor	Q2 2010 Shipment Volumes	Q2 2010 Market Share	Q2 2009 Shipment Volumes	Q2 2009 Market Share	Q2 2010/ Q2 2009 Change
Nokia	24.0	38.1%	16.9	40.3%	42.0%
RIM	11.2	17.8%	8.0	19.1%	40.0%
Apple	8.4	13.3%	5.2	12.4%	61.5%
HTC	4.8	7.6%	2.1	5.0%	128.6%
Samsung	3.0	4.8%	1.1	2.6%	172.7%
Others	11.6	18.4%	8.6	20.5%	34.9%
Total	63.0	100.0%	41.9	100.0%	50.4%



Trouble Maker: Smartphone vs. PC

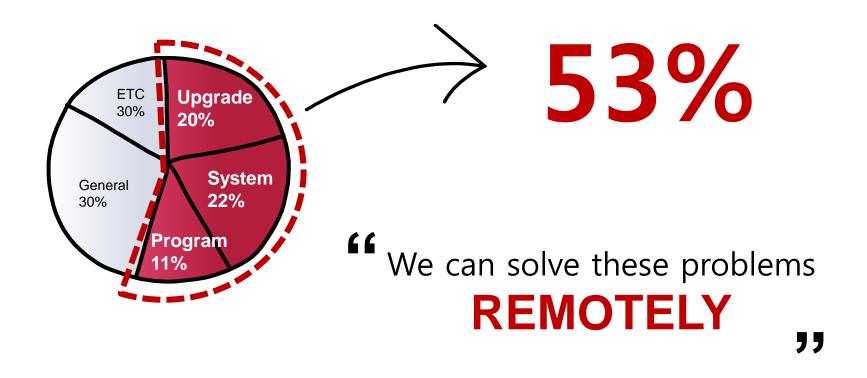


* SOURCE : a very global electronic service company





More efficient solution for Mobile Devices



* SOURCE : a very global electronic service company



Mobile Device Management



Inventory /User

Configuration

Security

Software /Application Backup /Recovery

Data /Documents



Remote Control

Lost Phone













Practical Usage







Telco

Enterprise

Trouble Shoot

Device Management

Security Management



2. RemoteCall?

- What is RemoteCall?
- Key Map
- Key Features
- Platforms
- Management / Operation

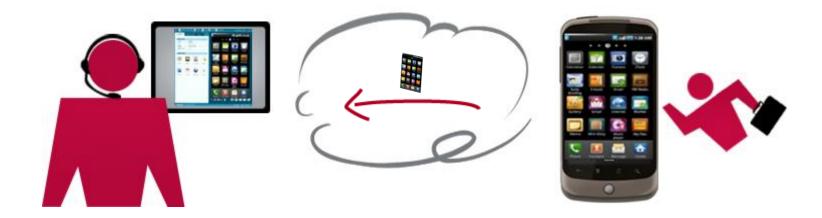




What is RemoteCall?

Real time support remote Smartphone, PC, TV ...

- Screen sharing
- Input (Touch, Button) control
- File transfers

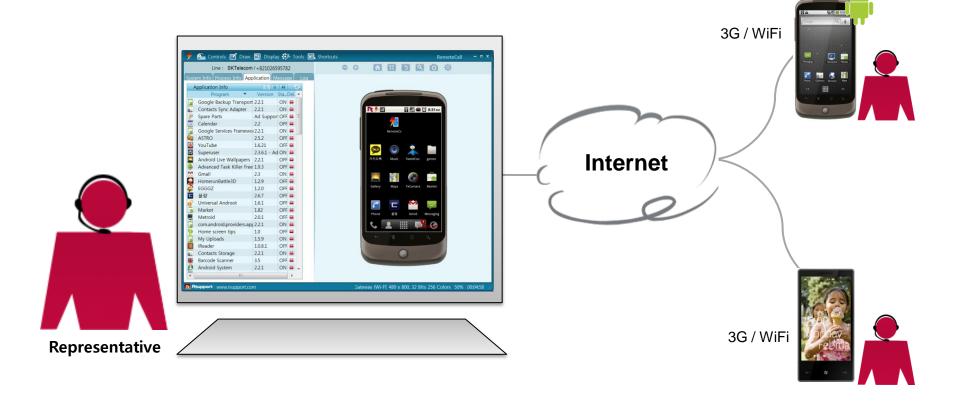




Key Map Help Call! Room # Viewer Login Room Creation App. execution / admission **Mobile Device** Guide | Control Web Browser 3G, Wi-Fi / Viewer RemoteCall server Remote Screen, Control



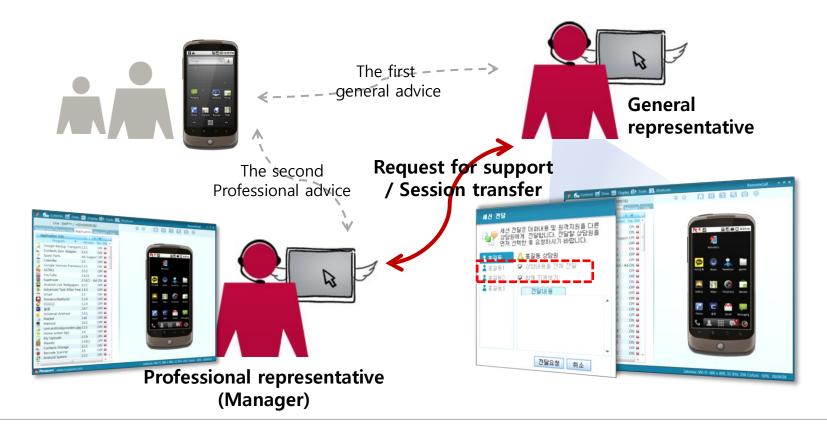
Screen Sharing





Session Transfer

Forward a session to another representative while it is connected with a customer: Professional advice, Multilateral collaboration and Education





Device Information







Input Control

- Click, Drag
- Main buttons
 - Home, Menu,
 - Back, Search,
 - Volume Up/Down
- Skin is applicable





Guide

Guide customers by drawing on their screen without direct control the customer's device

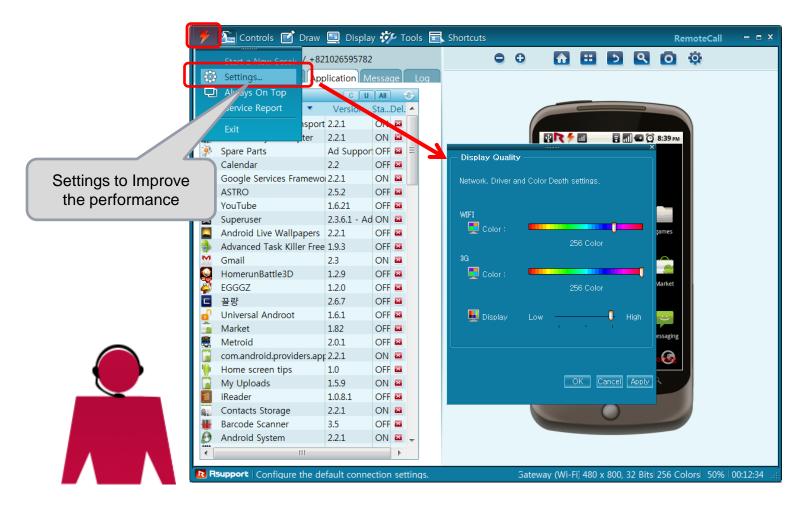








Setting

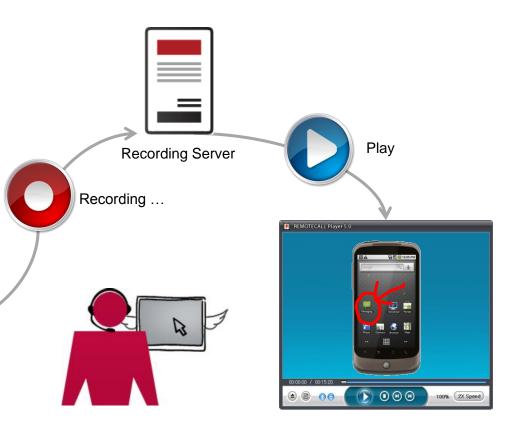




Recording (optional)

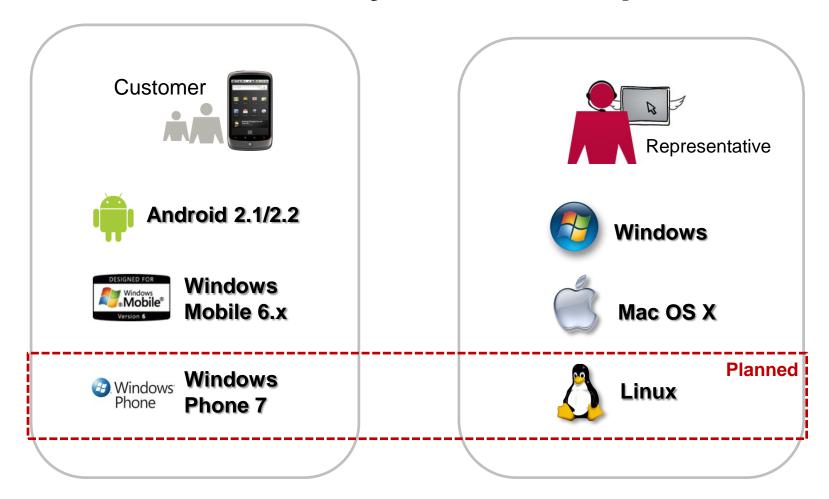
- Reserved Recording server
- A central control
- All the screen change
- Reserved format
- Dispute prevention
- Educational use







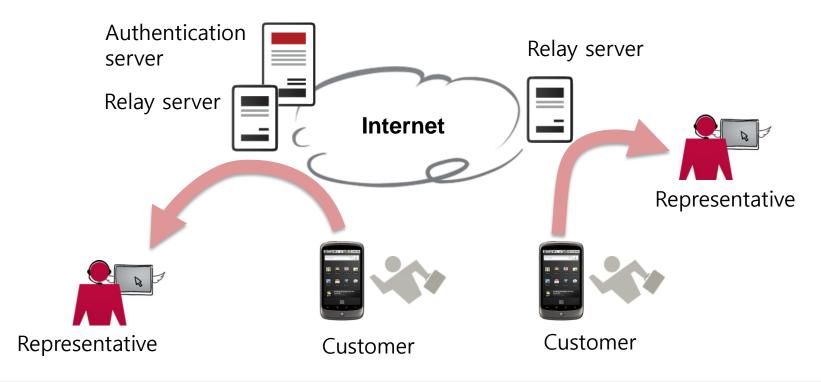
RemoteCall is ready for various platforms





System Configuration

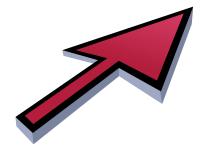
- Authentication and Relay server.
- Relay server can be distributed in different places to improve the performance.





3. Strong Points

- Key Issues
- Installation
- Performance
- Connection
- More





Key Issues

- Mobile App Install
- Traffic
- Connection
- Load
- Session





How to install our app to Smartphone

- Embedding Factory Installation
 - Pre Porting
 - OS Upgrade
- App Download*
 - Signed APK by System Key
 - SMS Linker
 - Market
 - Mobile Web





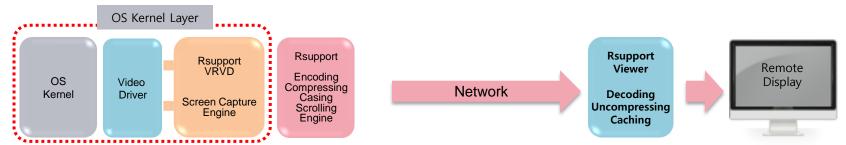
* Requires OS Acceptance



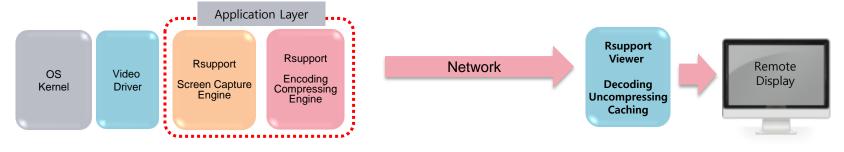


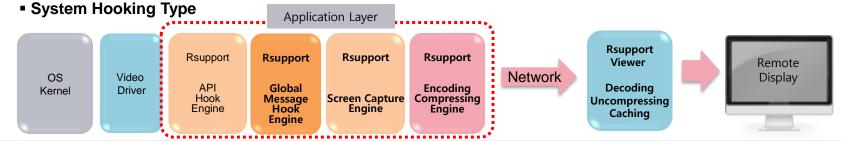
Engine

Mirror Video Driver Type



Advanced Polling Screen Type





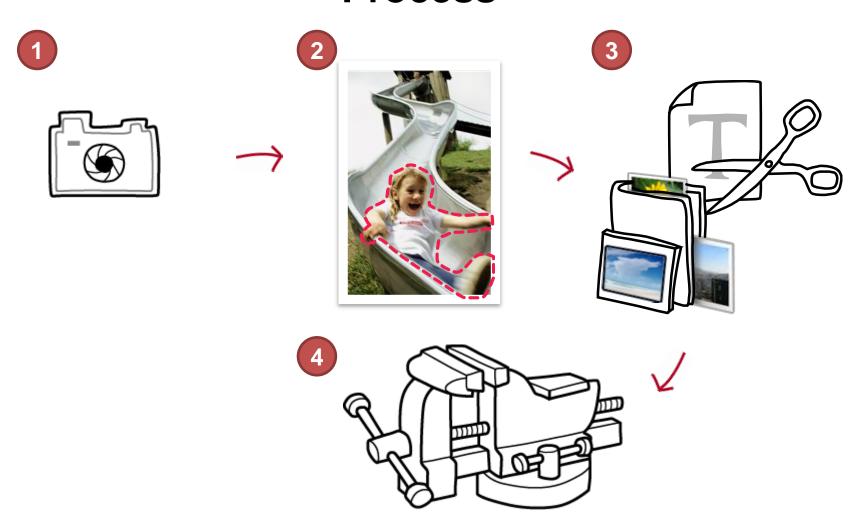


Engine

Туре	Minimum CPU Spec	CPU Usage	Data Packet Size	Extracting Data Process	DirectX 3D	Programming	Control Speed
Mirror Driver	Low	Low	Low	Short	None	High Skilled	High
Polling Screen	Medium	Low & Medium	Medium	Short	Yes	Very Simple	Medium
Hooking	High	Medium	High	Long	Yes	High Skilled	Medium



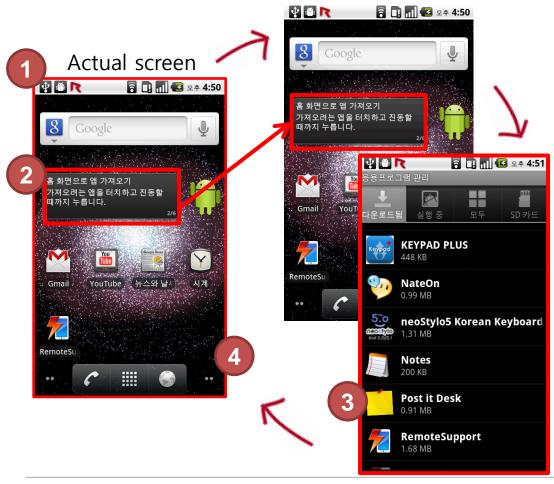
Process





Process

Transferred screen



Description Screen image compression/ transfer True Color -> 256/64/4 Color Change Texts and images on the screen are transferred separately. Only changed areas on the screen are transferred Rapid return to current display: Image cashing - 10KB >



Process

Low Bandwidth(3G) Packet reduction Algorithm



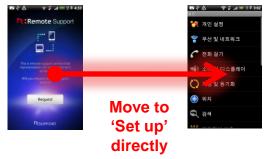


Screen is changed in less than 2 sec.





Move to 'Set up' via 'Home' screen



Automatic color adjustment

Automatic color adjustment (256/64/4) as Network speeds

Unnecessary screen is not transferred

The screen which is changed in less than 2 sec. would be omitted during the screen transfer

Move to 'Set up' immediately

After the connection, you can see the main screen directly without any unnecessary screen



Benchmark

Scenario of screen changing

1. Main screen \longrightarrow 2. Program \longrightarrow 3. E-Mail







Test phone : Galaxy S
Original resolution : 800*480
Color: 16 bit

Normal 256Color:

Data size is reduced by about 27 times

1) Customer moves lateral three screens 1 time (Kbyte)

Class.	True	256	64	4
Original	2250			
Transferred	473	145	82	41
Reduced	79%	93.6%	96.4%	98.1%

2) Expected speed of Data transfer as the above result (sec.)

Uploading	True	256	64	4
50Kbps	75	23.2	13.1	6.5
500kbps	7.5	2.3	1.3	0.6
1Mbps	3.25	1	0.7	0.3

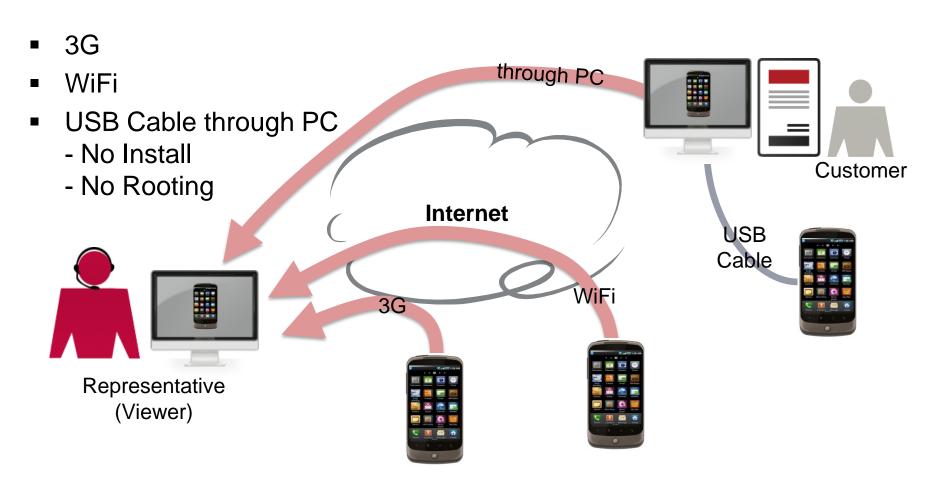
3) If customer repeats above action of "1)" 3 times (Kbyte)

Class.	True	256	64	4
Original	6750			
Transferred	572	250	142	61
Reduced	91.5%	96.3%	98.9%	99.1%

* Reduced data packet size : 11 (True) ~ Max. 110 times (4color)



Type



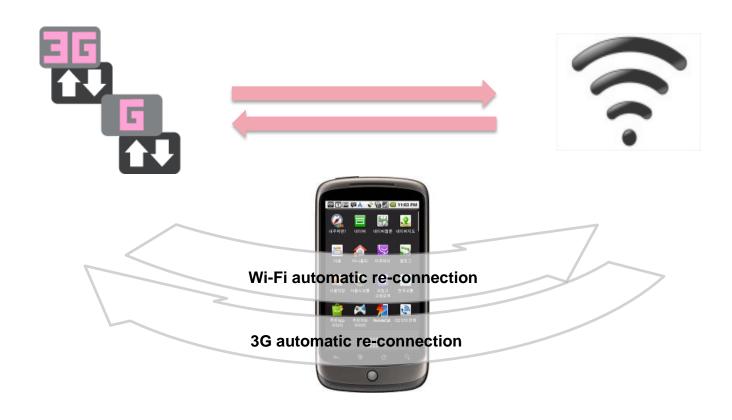


Process Remote Support Pin Code 상담원으로부터 안내받은 6자리 접속 번호를 입력해 주세요. - 6 digit code 123 456 Pin Code One Click - Customer's Phone No. - A patent application Feature **R**SUPPORT Internet Remote Support 상담원이 고객님 단말기를 보면서 상담하는 원격지원 서비스 입니다. 원격지원을 요청하시겠습니까? One Click RSUPPORT



Keep Session

Low Bandwidth(3G) Packet reduction Algorithm







Light Load

ltem	Content	Remarks
Minimum requirement for the device	Android 1.6 and high	
Network	Internet accessibility	3G, Wi-Fi, USB
Device client size	1 Mbytes plus	
RAM Size for operation	300 Kbytes plus	
Device client operation time	About 1~2 seconds	Depends on a device
Remote connection time	About 10 seconds	Depends on Internet environments
Device's CPU usage	2~30%	Depends on a device
Transferred data size between client devices to server	About 2,731 bps	Depends on screen contents
Communications protocol	TCP/IP	



4. about RSUPPORT

- Overview
- Present condition
- Patents and Certifications
- History
- External evaluation
- Major business and service area
- Best Practice on Mobile





RSUPPORT is the world leader in remote solutions purpose-built for the call center and helpdesk of business, education, government and service providers. Our reliably engineered, easy-to-use products service over 5,000 companies to assist the remote users all around the world.

Offices: Korea, Japan, US, China

Contact : +82.70.7011.0590

Established in 2001

Employees: 98

Specialized in Remote Solutions only

No. 1 in Korea

No. 1 in Japan

No. 1 in Asia



about RSUPPORT: Patents and Certifications





2005 Korea Software Award

- Minister Award
- Organization MIC
- 2004 Dec.



Patent No. 0402094

- Remote Control System using Web and Icon
- Issued: 2002.11.22

Go Green with Rsupport

Just choosing Rsupport You can save our Planet



100 Excellent Patent software Innovative Technology

- Minister Award
- Hankook News Award
- 2004 Jul.



- SMB Technology Association
- Organization SMBA
- 2007 Sep.



- SMB Committee

- 2007 Oct.



Venture Company Award the \$1 Million Export Award

- Organization KITA
- Organization MKE, KOVA- 2006 Nov.



Patent No. 10-0676865 - Computer Remote

Control Method using ARS and Internet

- Filing: 2005.12.15



Patent No. 10-0817767 - Authentication Method using icon code

- Issued: 2008.01.14

New Software

- Minister Award
- 2004 Jul.

Prospected Export Company

- Organization SMBA
- 2003 Dec.

Venture Company

- Remote Support Technology
- Oraganization SMBA
- 2003 Dec.

Transparency Management

- Organization KIBO
- 2005 Aug.

R&D Center Certificate

- Organization KIAT
- 2007 Jul.

Certificate of Software Quality

- Number: 04-0044
- Program : RemoteCall v3.1
- Date: 2004.12

Certificate of Software Quality

- Number: 06-0034
- Program: RemoteCall v4.0
- Date: 2006.02

Certificate of Superior **Technology Company**

- Date: 2002. 12.26
- Korea Technology Credit Guarantee Fund

Works with Windows Vista

- Program : RemoteCall
- Date: 2007.04



JP Patent No. 4038684

- Remote Control System Using Web and Icon
- Issued: 2003.11.19

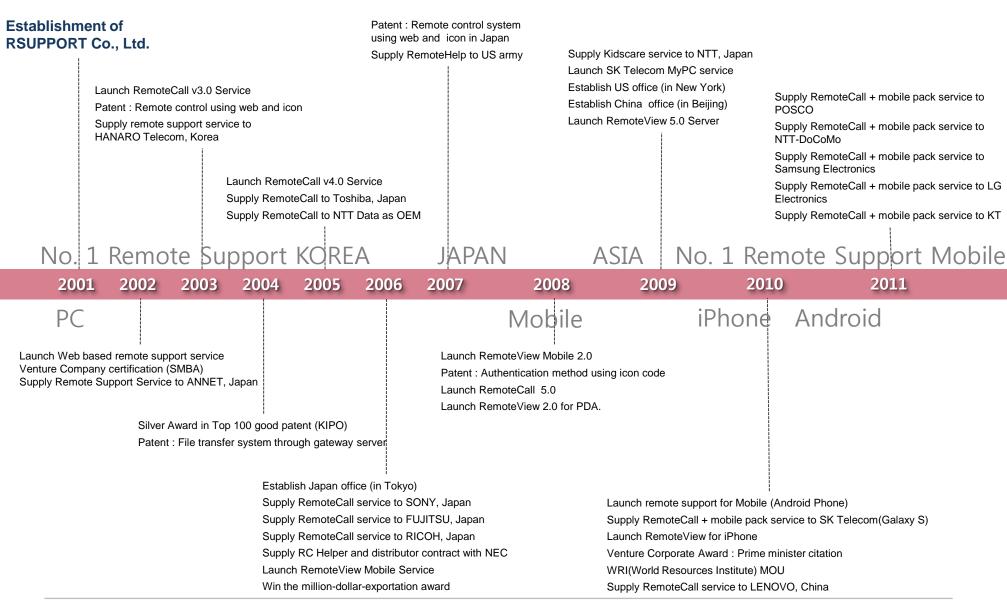
Patent No. 0014773 - File transfer System though gateway server

위의 발명은 독려덟에 의하여 독려등목원부에 등 독되었음을 충명합니다.

- Issued: 2002.3.19

History of RSUPPORT

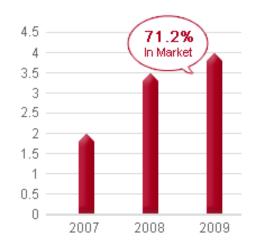




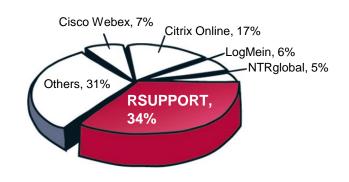


RSUPPORT is one of the leading companies in the remote access and remote support market. Global research firms, IDC, Frost & Sullivan, and MIC Economic Research Center reported that RSUPPORT's remote support solutions are "No.1" in the Asian market.

Japan Market Sales (in Million dollar)



Web-based Clientless Remote Support Software : Market Shares by Revenues(APAC),2008



Note : All figures are rounded Source : Frost & Sullivan









RemoteHelp



Remote Sales







RemoteX



RemoteCall appliance



RemoteAPI





- SK telecom Smartphone remote support service
- November, 2010
- SK telecom Android Smartphone
- Support remote Smartphone as a customer service by SK telecom's call center

Function	Description
Device information	Display the device and user information to a representative
Program information	Display all applications which are installed and running on the smartphone, and the Representative can remove or end them
RF information	Information on the base station of customer's current location and performance quality are displayed
Firmware upgrade	By Device Management server
Remote support	Representatives solve customer's problem by seeing the Smartphone directly



For more information about RSUPPORT, please visit http://www.rsupport.com

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