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## **Connected Life Market Watch** Service Delivery and Consumer Cloud (U.S.)

**Cisco Internet Business Solutions Group** 

August 2011

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### **Connected Life Market Watch Program** Service Delivery and Consumer Cloud

Scope	Approach
United States	Market Watch Program
Canada	<ul> <li>Cisco IBSG's recurring primary research program</li> </ul>
France	<ul> <li>Monitors changing consumer behavior to</li> </ul>
• Italy	identify key market transitions
	Methodology
	<ul> <li>U.S. broadband consumers</li> </ul>
	<ul> <li>20-minute online survey</li> </ul>
	<ul> <li>1,000 total respondents</li> </ul>
	• April 2011
	Segmentation
	<ul> <li>Used proprietary scoring methodologies to identify consumer "technology" segments</li> </ul>

### **Key Findings**

### **Consumer Cloud & Connected Life**

- U.S. consumers are more likely to adopt Connected Life services when they include cloud enhancements
- The more engaged consumers already are with Connected Life experiences, the more impact cloud experiences have on their demand for Connected Life services

### **Consumer Buying Behavior**

- SPs are the preferred provider for Internet-to-TV solutions and can expand market potential by targeting consumers that are "in play"
- Ongoing cost, up-front cost, and reliability are the strongest factors in consumer decision about where to buy; ongoing costs with an SP is a key area of concern

### **Usage-Based Billing**

- Most U.S. broadband consumers consider usage-based broadband pricing unfair and would prefer subscribing to an unlimited plan
- For online video, consumers are likely to respond to usage-based billing by **reducing use**

### **Consumer Technology Trends**

 Consumers are embracing Connected Life services and technologies: mobile video use is rising, mobile data use occurs predominantly in fixed locations, and consumers are increasingly reliant on their broadband service



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## **Cloud Offers Consumers an Enhanced Connected Life Experience**

### Cloud-Enabled Enhancements Can Be Applied Horizontally Across Connected Life Services

Connected Life	Cloud Enhancements	Answer Consumer Needs
	<ul> <li>Unified Data Management</li> <li>Automatic Backup</li> <li>Automatic Data Sync</li> </ul>	Make my data management easy
	<ul> <li>Any Device/Location</li> <li>Immediate Access</li> <li>Seamless Switching</li> </ul>	Let me access and move my stuff easily across my devices, from anywhere
DISARMED - Press to Arm	<ul> <li>One-Time Payment</li> <li>Single-Menu Access</li> </ul>	Let me choose what I want across all services, but pay only once
	<ul> <li>Add New Capabilities Automatically</li> <li>Remote Monitor/Automatic Fix</li> </ul>	Make it easy for me to get Connected Life services
	<ul> <li>Advanced Sharing</li> <li>See Peer Recommendations</li> </ul>	Help me match my online social behavior to my real- life social behavior

Source: Cisco IBSG, 2011

## Cloud Is More Powerful as Complete Experience vs. Single Enhancement

### Most consumers influenced by more than one cloud enhancement



#### Source: Cisco IBSG Connected Life Market Watch, 2011

## **Cloud Enhancements Impact Consumers' Reaction to Connected Life**

- Each cloud enhancement positively impacts one out of three respondents' reaction to Connected Life services
- Kano methodology validates and informs consumer interest interpretation; 36% of consumers report interest of 8+ on 10-point scale



Source: Cisco IBSG, based on Kano methodology, 2011

## Which Consumers Are Seeking Complete Cloud Experience?

- Complete cloud experience demanded by connected consumers who regularly engage in Connected Life activities
- Consumers with strong demand for complete cloud:
  - Younger (40% under 30)
  - More likely to be female (60%)
  - More likely to be early adopter
- Consumers with no demand for cloud are less engaged in Connected Life
  - No strong buying channel preferences
  - Likely to be concerned about service contracts





#### Consumers Engaging in Digital Activities Weekly Percentage of Respondents



## Some Cloud Experiences Have Stronger Impact than Others

### Impact of Mandatory and Critical Enhancements on Connected Life Services



#### Percentage of Respondents

- 18% to 24% of consumers are already starting to expect their Connected Life services to include certain\_cloud enhancements:
  - Single payment

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- Immediate access
- Remote monitor /auto fix
- These consumers will react to a Connected Life service negatively if these cloud enhancements are not present

## Some Cloud Experiences Spark Stronger Consumer Interest than Others



#### Source: Cisco IBSG Connected Life Market Watch, 2011

## Cloud Enhancements Impact Connected Life Buying Behavior



- On average, 68% of respondents have increased likelihood of buying Connected Life service if it has single cloud enhancement
- 32% are "more likely" or "much more likely," further validating Kano methodology

Source: Cisco IBSG Connected Life Market Watch, 2011

## **Consumer Buying** 2 Behavior **Factors Driving Where To Buy**

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## Cost and Reliability Are the Most Important Factors in *Where To Buy*



#### Source: Cisco IBSG Connected Life Market Watch, 2011

## SP Lead Varies Across Consumers' End-to-End Experience

### Consumer Channel Preference Based on Individual Factors in Consumer's End-to-End Experience



- SPs have a commanding lead in troubleshooting, ease of setup, reliability
  - Twice as many consumers believe SPs better fit their needs in these areas
- SPs still lead in ongoing cost, upfront cost, features, and ease of selection, but by a smaller margin

## However, SPs Have Smallest Lead in Most Important Decision Criteria

### **Consumer Channel Preference:** Individual Factors in Order of Importance



- Ongoing cost is the most important decision criteria for most consumers
- And, it's the factor where SPs and retail/online preference are most evenly matched

### **Consumers With Strong Preference Believe Their Channel Saves Them Time**

Saving Time in the Purchase Process: Comparing Retail/Online & SP Options by Customers with Strong Channel Preferences



# SPs Are Consumers' Preferred Provider for Internet-to-TV Solution

For 8 different factors in the purchase process—from up-front cost to ease of use—consumers were asked which channel option best met their needs:

- Strong SP: These consumers believe SP provides a better experience in 6 or more factors
- Strong Retail/Online: These consumers believe retail/online provides a better experience in 6 or more factors
- In Play: These consumers' channel preference shifted significantly from factor to factor
- Indifferent: These consumers selected "don't know" for all 8 factors, likely due to lack of interest in Internet-to-TV solutions



Source: Cisco IBSG Connected Life Market Watch, 2011

## To Expand Customer Potential, SPs Should Target "In Play" Consumers

To increase SPs' customer potential, in-play consumers represent the best segment to target:

- 18% of consumers are highly indifferent and will be difficult to draw into any Internet/TV purchase
- Another 18% show a strong preference for the retail/online experience and may be difficult to attract
- However, a sizable 30% of the market shows openness to consider both SP and/or retail/ online solutions



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## "In-Play" Segment's Priority Buying Factors Favor the Retail/Online Channel

#### **Channel Preference of "In-Play" Consumers** Based on Individual Factors in Consumers' End-to-End Experience



- Retail/online channel demonstrates strong lead in the two factors that most strongly influence "In-Play" consumers' decision about where to buy: ongoing cost and up-front cost
- SPs can take advantage of their lead in reliability also a strong decision factor—to attract consumers

Red: Criteria ranked higher than for average consumer

#### Source: Cisco IBSG Connected Life Market Watch, 2011

Base: "In-Play" U.S. broadband consumers

## By Lowering Adoption Barriers, SPs Can Influence Buying Behavior

#### **Example: Consumer Reasons for DVR Adoption**

- 65% of DVR owners first adopted a DVR because an SP made it easy
- Similar principle could apply to today's new technology



#### Source: Cisco IBSG Connected Life Market Watch, 2011



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## **Consumers Feel It Is Unfair To Pay for Broadband Service Based on Use**

- Tiered pricing for fixed broadband based on data usage is not being practiced in U.S. today
- U.S. SPs face increases in data usage (driven by video) that are not balanced by increased revenue
- In reaction to this situation, their Canadian counterparts began launching tiered broadband pricing plans in 2010



Source: Cisco IBSG Connected Life Market Watch, 2011

# Unlimited Plans Could Be Popular When Usage-Based Billing Comes to U.S.



#### Source: Cisco IBSG Connected Life Market Watch, 2011

### For Video Specifically, Consumers Are More Likely To Reduce Usage



#### Source: Cisco IBSG Connected Life Market Watch, 2011

### For Internet Video/Data Packages, No Clear Winner for Data Pricing



#### Source: Cisco IBSG Connected Life Market Watch, 2011

### Online Video Service Pricing Options:

- \$16 per month, with unlimited access to video library, unlimited video streaming or downloading; would not count against data limits set by Internet service provider, OR...
- \$8 per month for unlimited access to video library, unlimited video streaming or downloading; would count against data limits set by Internet service provider, and could be subject to additional data fees

## However, Very Strong Preferences Exist for Older / Younger Age Groups



Younger consumers skew heavily toward unlimited video / data plan, while older consumers skew heavily toward unlimited video with limited data



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## Most Mobile Internet & Mobile Video Activity Takes Place in Fixed Locations



The few late-majority/laggard consumers using mobile Internet and video are more likely to be at home than early adopters, so fixed-location usage could rise as market matures

Source: Cisco IBSG Connected Life Market Watch, 2011



 This usage takes place when the user is indoors and stationary, and could be supported by Wi-Fi / femto solutions

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Base: Respondents engaged in activity

### **Mobile Video Use Is Trending Upward**



## At-Home Mobile Internet & Mobile Video Usage Are Trending Upward



### Slight rise in at-home use as percentage of total mobile Internet and mobile video activity since 2009

Source: Cisco IBSG Connected Life Market Watch, 2011	Base: Respondents engaged in activity

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## Changes in Consumer Spending Priorities Since 2009



- Broadband has increased in importance; landline phone has decreased
- Mobile data remains least important, and fewer people are protecting it

Source: Cisco IBSG Connected Life Market Watch, 2011	
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# Next Steps: Implications for Service Providers

### **Technology Trends**

 As consumers embrace Connected Life services and technologies, SPs will need to carefully manage pricing policies to foster new revenue streams and manage traffic costs without discouraging use

#### **Consumer Cloud Demand**

 To increase adoption potential for Connected Life services, SPs should strategically include cloud enhancements with their offerings

### **Usage-Based Broadband**

 SPs must offer both usage-based and unlimited pricing plans to meet the needs of different customer segments and maximize profitability

### **Buying Behavior**

- Capitalize on preference for SP experiences to increase market share of Connected Life services
- Though SPs hold a strong lead as consumers' preferred Internet-to-TV solution provider, they can expand their market potential by targeting the 30 percent of consumers that are "in play"

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