Forrester Consulting

Cisco Wireless Solution ROI Calculator

This guide offers an overview on the ROI calculator created to measure the business value of implementing Cisco Wireless solutions.

Overview

Cisco commissioned Forrester Consulting to create an ROI calculator that provides an estimate of the potential return on investment customers may realize by deploying a Cisco Unified Wireless Network and related solutions. The tool is designed to allow maximum flexibility for users to customize the most appropriate solution for their wireless implementation. More specifically, users can calculate the return from an investment on a core wireless infrastructure or model how incremental investments in Wireless Video Surveillance or Voice over Wi-Fi solutions would impact ROI. The tool allows users to navigate back and forth and adjust the inputs and change selections to determine the return on investment related to their company. The "reset" functionality allows users to automatically reset the content to the original default settings.

Privacy notice: This tool does not collect or store any personal information and all values can be reset to default.

Methodology

To create this model, Forrester analysts who specialize in mobility services and financial analysis collaborated to define and quantify the benefit areas in which companies may realize financial returns from the implementation. The tool integrates financial modeling techniques to arrive at a risk-adjusted ROI to evaluate the benefits while taking into account the costs associated with the deployment as well as the uncertainty in the costs and benefit estimates. The values delivered by the model are calculated using Forrester's Total Economic Impact (TEI) methodology, which includes elements of cost, benefit, risk, and future flexibility options. To learn more about Forrester's TEI methodology visit, http://www.forrester.com/TEI or click on "Model Instructions" on the tool's Home page.

Navigation

When opening the file you are required to enable macros in order to operate the tool. The following information is included in the Define Model Settings page under the Instructions section.

Instructions for Microsoft Excel PC users:

For Excel 2003, if the window below (Figure 1) appears, click on "Enable Macros" and proceed. If you were not prompted or need to check your system security level, follow these instructions:

1. Click "Options" from the "Tools" menu command.



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- 2. When the "Options" multi-tabbed dialog box appears, click the "Security" tab.
- 3. Click "Macro Security".
- 4. When the "Security" multi-tabbed dialog box appears, select the "Security Level" tab.
- 5. Select the "Medium" setting, which will allow you to enable or disable macros every time you open a workbook that contains macros. Click "OK".
- 6. Exit Microsoft Excel.
- 7. Re-open this workbook and select "Enable Macros" when given the option to enable or disable macros as seen in figure 1 below. If the macro security level settings have been adjusted correctly, you should be presented with the Home page as shown in the figure 1 above.

Figure 1: Security Warning – Enable Macros Excel 2003

Security Warning	×
"C:\Documents and Settings\sroshan\Desktop\Cisco_Wired_Wireless_June 2009\ROI tool\Cisco ROI tool_Final_3.23.10.xls" contains macros.	
Macros may contain viruses. It is usually safe to disable macros, but if the macros are legitimate, you might lose some functionality.	
Disable Macros Enable Macros More Info	

For Excel 2007, if the "Security Warning" banner in figure 2 below appears, click on "Option" and select a radio box beside "Enable this content" as seen in figure 3.

- 1. In Excel, click the "Office" button in the upper left corner of the screen.
- 2. Click the "Excel Options" button in the lower right.
- Click the "Trust Center" button on the left. Then, at the bottom right, select "Trust Center Settings".
- In the next window, select "Macro Settings", then select the radio button for "Disable all macros with notification".
- 5. To close the Trust Center window, click the lower right "OK" button.
- 6. Save and close Excel completely.
- Re-open this workbook. Now there should be a "SECURITY WARNING" notification beneath the Office ribbon.
- 8. In the "SECURITY WARNING" banner, click the "Options" button.

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9. Select the radio box beside "Enable this content", then click "OK". After you click "OK" and the window closes, macros included in this tool should function normally. Note you will need to follow steps 8 and 9 each time you open this workbook.



Figure 2: Security Warning banner for Excel 2007

Figure 3: Security Alert – Macro for Excel 2007



Instructions for Microsoft Excel Apple users:

- If you are running the Windows operating system on an Apple computer, please follow the directions for enabling macros using Microsoft Excel 2003 or Microsoft Excel 2007.
- If you are running the Apple operating system, please contact your IT department to determine if this calculator can run properly on your machine.

What you can expect when you start

The following diagram illustrates the layout of the tool that will follow after you click on the "Start" button on the Home page.

Diagram 1: Flow of calculator



Home page

At the Home page (Figure 4) you can access the tool and adjust it to meet your needs. You can navigate the tool by using the functionality offered on the Home page as well as the banners located on the top of pages throughout the tool.

Figure 4: ROI calculator Home page



Reset – Forrester has populated the tool with some default values from customer interviews. The
non-default values or input values are based on users' specific situation. The user has the ability
to override the default values. By clicking on the "Click to reset" button, you can reset the tool
back to the original values. Meaning that default values and input value will be returned to the
original form. If you have previously used the tool, it is recommended to reset the tool when you
open it before using it with another customer to ensure that all the data is set to the original
estimates (see Figure 5).

Important note: If you reset the tool you will lose all data that has been entered into the cells. To preserve your entered values answer "no" to the question shown in Figure 5.

Figure 5: Warning that all entered data is lost when the tool is reset

Reset ca	alculator?
	This procedure will reset the calculator and you will lose all data entered. Are you sure you want to continue?
	<u>Yes</u> <u>N</u> o

- Start After resetting the tool and/or adjusting the model setting, users can click on the "Start" button to proceed.
- Model Settings The users can adjust the size of the screen in the Model Settings page. You can click on "Home" to return to the Home page. If you experience any difficulty when adjusting the screen size, close the file and reopen it.
- 4. Disclaimer This page illustrates the disclaimers for both Forrester and Cisco.

On the Profile page (Figure 6), you will be asked to supply some information in order to customize the tool for your company. You will also be required to answer a few questions.

Figure 6: Profile page overview

Cisco Wireles	s Solution - ROI Calculator		Formula Bar		
Navigation:	Home	Voice	Keys:	Input value	
	Pirofile	Financial Summary		Default value	
	Core Wireless Infrastructure	ROI Details		Changes to default value	
	Video Surveillance	Methodology Overview		Calculated value	
calculate sper	or is designed to provide you with i cific benefits that a Cisco Next-Ger	an estimated return on investment or heration Wireless Network provides.	 a services-rich wireless network. After entering information on this Profile page, continu After completing all required fields, click on "Financial Summary" using the navigation ba 	e to the following tabs to r on the right to see the resul	
Organization of Please description	bverview be vour company.		Name of company		
			Name (title of contact		
			Waney the of contact		
			Preparer name		
			Date		
What is the to	tal number of employees? (Require	ed field)			
What percent	of your total employees are mobil	e?		4	
What is the total square footage in your headquarters?					
How many oth	ner locations (i.e. branches, exclud	ling headquarters) do you have?			
What is the a	verage square footage of your facil	lities per location (excluding headqu	arter)?		
What is the to	otal square footage that require ou	tdoor wireless coverage, at headqua	rters?		
What is the a	verage square footage that require	outdoor wireless coverage per locat	ion (excluding headquarters)?		
The tool uses	a number of assumptions. Would	you like to adjust them? (Please selec	tt "Yes" or "No" and then press enter)	No	
				Back to to	

If you decide to view model assumptions you will be able to change some default information such as:

The confidence level cells allow users to indicate the level of confidence they have in the information provided in each of the benefit categories. In the risk-adjusted calculations in the financial summary, the benefit amounts will decrease as the users' confidence levels decrease.

Implementation phasing (roll out) allows users to indicate what percentage of benefits they think they are going to realize in each year during the analysis period. It takes time to implement a solution, so the full value of the benefits will be realized over time.

Figure 7: Keys



- Dark blue boxes are User Inputs. Please fill in ALL dark blue boxes.
- White boxes are Calculated Values based on other inputs and are not changeable.
- Light blue boxes are Default Values provided by Forrester. Forrester applied values gathered from research and customer interviews to provide Default Values based on industry averages. You may decide to keep the Default Value provided or to change the value to more specifically match your business.
- Changes to default value boxes are boxes in which the Default Value has been changed. For your convenience any changes in default values automatically changes the color of the cell, indicating that the default value has been adjusted. If you are interested to view the original default value, the user can mouse over the now orange cell and see the original value. The "Reset" button on the Home page will reset all Default Values to their original settings.

After completing inputs within the Profile page, click on the "Core Wireless Infrastructure" button to move to the Cost page. The navigation buttons (Figure 9) are located at the top of each page.

Figure 8: Navigational buttons located at the top of the screen

Home	Voice
Profile	Financial Summary
Core Wireless Infrastructure	ROIDetails
VideoSurveillance	Methodology Overview

In the following pages (Core Wireless Infrastructure (Figure 10), Video Surveillance (Figure 11), and Voice (Figure 12)), depending on the answers and selection in the prior page, users are presented with a set of assumptions and inputs.

The response to these questions will allow users to customize the answers and calculate the results for their respective organization. Users have the ability to eliminate or include services within Core Wireless Infrastructure such as Context Aware and Security, as well as Video Surveillance and Voice that are created as add-ons.

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To calculate the core wireless infrastructure costs, there are series of assumption available under the wireless infrastructure cost section. To view and adjust this information, the user can select "Yes" and press Enter.

Figure 9: Core Wireless Infrastructure

Cisco Wirele	ss Solution - ROI Calculator				
avigation:	Home	Voice	Kegs:	Inputy	alue
	Profile	Financial Summary		Default	value
	Core Wireless Infrastructure	ROI Details		Changes to de	fault value
	Video Surveillance	Methodology Overview		Calculater	d value
This section from mobile	will help you calculate the benefits i applications. For a complete view	from your investment in a wireless of the capabilities of the CUV/N pl	network infrastructure. The Cisco Unified Vireless Network is a services ready architecture that ease scroll down and fill out all sections in this page.	t can deliver mu	utiple benefits
Please an	sver the following questions	2		-	
How many u	sers are using their laptop or anothe	er Wi-Fi connected device for wor	12		0
What is the	average amount of productive time	a user is expected to recover per o	lay as a result of having network access anywhere on-premise? (Minutes)		30
What is the	average number of guests that requ	ire network access per month?			
What is the	average time (minutes) required to p	rovision a guest account?			15
What is the	average hourly rate of external contr	actors?			\$150
Do you ence	ounter situations that require ad hoc	network coverage (i.e., seasonal	deployments, temporary moves, and construction limitations for wired networks)?		Yes
Please spec	ify the number of users you support	annually for those ad hoc networ	k deployments.		
What is the	alternative cost to provide wired net	work connectivity per user for abo	ve situations?		\$400
Context A	ware: The ability to capture and int	egrate into business processes d	etailed contextual information about things such as location, temperature, the availability of an a	asset, and	
applications	used. Fill out the questions in this	section about mobile assets and t	he users of those assets, to see the impact on your organization's profitability. (To include Cont	text Aware in [Yes
the ROI calc	ulation select "Yes", otherwise "No	")			_
How many u	inique assets (i.e., laptops, Wi-Fi pho	ones, projectors, etc.) are being tra	cked weekig?		
What is the	average time spent looking per asse	t weekly? (Minutes)			60
How many a	issets are marked as lost or remaine	ed uncovered monthly?			
What is the	average cost per asset lost?				
What is the	opportunity cost associated with no	t having the asset available for an	hour?		
Security: infrastructur	Constant and thorough network visi re-integrated approach to comprehe	bility is an integral part of the Cisc nsive wireless security reduces of	o Unified Wireless Network solution. Fill out the questions in this section to find out how Cisco ¹ pital costs while streamlining security operations. (To include Security in the ROI calculation selected as the security in the ROI calculation selected as the security in the ROI calculation selected as the security operations.)	's witeless ect "Yes", [Yes
otherwise T	V0"]				
Howmanyr	ogue detections activities (i.e., HF s	cans) do you perform annually us	ng internal statt?		
How long do	oes it take per engagement to partici	ipate in rogue detection activities?	? (Total Man Hours)		
How many r	ogue detection activities (i.e., FIF sc	ans) do you perform annually usin	g third-party service providers?		
What is the t	hird-party service provider rogue de	tection cost per RF scan?			\$5,000
How many r	ogue APs do you identify per year or	n your premises that require you to	o manually remove them?		
How long do	oes it take to locate and remove eac	ch rogue AP from your premises?	(Total Man Hours)		
Spectrum (requires Co include Spec	Intelligence: Cisco CleanAirtec antext Aware), provides automatic a strum Intelligence in the ROI calculat	hnology is a systemwide feature t djustments to optimize wireless o ion select "Yes", otherwise "No")	at improves air quality by detecting RF interference, identifying a source and locating it on the fit overage around the interference. It enables faster troubleshooting and effective policy enforcem	oorplan ient. (To	Yes
How many P	F interference related incidents doe	s IT respond to per month?		1	ð
How long do	oes it take IT personnel to troublesh	oot (detect and classify interferen	ce source) each issue? (Hours)		15
How long do	oes it take IT to locate and remove e	ach source of RF interference us	ing a handheld device during a walk-about scan and for system remediation? (Hours)		24
Vireless I deployment	nfrastructure Costs: This sect (including equipment and man hour)	ion details some of the assumptio) and maintenance costs. To view	ons that will be used to calculate the cost elements of the Cisco Unified Wireless Network infrast model assumptions select "Yes" and press Enter.	tructure	No
Basic wire	eless financial summary resul	lts	P	resent result?	No
	Total costs Total benefits ROI Parback (months)				Berland
	a aleace (montais)				Back to top

Figure 10: Video Surveillance

Cisco Wireless Solution - ROI Calculator									
Navigation:	Home Profile Core Wireless Infrastructure Video Surveillance	Voice Financial Summary ROI Details Methodology Overview			Char	Input value Default value nges to default va Calculated value	lue		
Video Survei benefits you surveillance t	Video Surveillance: A services rich wireless network infrastructure allows you to run a multitude of mobility applications on it. Fill in this section to calculate the expected benefits you would receive in productivity, operational and IT productivity savings associated with deploying a flexible physical security network that utilizes wireless video yes surveillance technology.								
Please answ	er the following questions:								
What is the t	otal cost to physically monitor you	ir company per year?							
Expected per	centage reduction in physical sec	urity costs if you implement a vid	eo surveillance solution				10%		
How many vi	deo surveillance cameras does yo	ur firm plan to set up?		Outdoor		Indoor			
What is the a	verage cost to set up a wired vide	eo surveillance (i.e., CCTV or IP) d	amera?	Outdoor	\$5,000	Indoor	\$5,000		
What percen	tage of video surveillance camera	s would you expect to replace w	th wireless cameras?	Outdoor	10%	Indoor	10%		
How many m	an-hours (per month) do you sper	nd reviewing video surveillance fe	eds in order to locate an incident you wish to in	vestigate? (Require	s context aware)				
What is the a	verage hourly fully-loaded salary	of a security personnel?					\$50		
Wireless video surveillance financial summary results Present result?							No		
	Total costs Total benefits ROI Payback (months)								

Figure 11: Voice

Cisco Wireless Solution - ROI Calculator								
Navigation:	Home	Voice	Input value					
, T	Profile	Financial Summary	Default value					
	Core Wireless Infrastructure	ROI Details	Changes to default va	lue				
	Video Surveillance	Methodology Overview	Calculated value					
Voice: For ar decrease cell solution.	Voice: For an incremental cost you can take advantage of the Cisco wireless network to direct voice calls over Wi-Fi. When used with dual-mode handsets you can significantly decrease cellular contract fees, while improving productivity and collaboration between employees. Fill out this section to calculate the expected benefits from a Voice over Wi-Fi Yes solution.							
Please answe	er the following questions:							
What percent	t of total number of employees n	ow (or in the future) use voice ove	er WLAN?					
What is the a	verage cellular cost for domestic	calls per user? (Monthly)						
What is the a	verage cellular cost for internatio	onal calls per user? (Monthly)						
What percent	t of the user monthly cellular min	utes can be reduced by transferri	ing calls to Wi-Fi?	50%				
What is the p	roductivity improvement on aver	age per user using Voice over WL	AN? (Minutes per week)	30				
Voice financial summary results Present result?								
	Total costs Total benefits ROI Payback (months)							

The functionality provided in the tool allows users to do quick sensitivity type of analysis and determine the incremental costs and benefits from investments in context aware, security, wireless video surveillance or voice over Wi-Fi. Even after completing the tool you can perform this sensitivity analysis by including or excluding results from the final ROI and viewing the impact on the Financial Summary section.

Financial summary result

It is important to note that the tool has been designed to present individual financial summary result for each section "Core Wireless Infrastructure", "Video Surveillance", and "Voice" at the bottom of each page. Financial summary result page (Figure 13) presents the consolidated view of the financial results. The results include the following:

- Summary of Financial Results
 - Risk-Adjusted, Profit-Loss Analysis graph

- ROI and Payback Summary table
- Non-Risk-Adjusted Financial Summary table
- Risk-Adjusted Financial Summary table
- Summary of Benefits
- Summary of Costs

The following are definitions for some of the items included in the financial summary results.

Return on Investment (ROI): A measure of a project's expected return in percentage terms. ROI is calculated by dividing net benefits (benefits minus costs) by costs.

Payback period: The breakeven point for an investment. This is the point in time at which net benefits (benefits minus costs) equal initial investment or cost.

Present value (PV): The present or current value of (discounted) cost and benefit estimates given at an interest rate (the discount rate). The PV of costs and benefits feed into the total net present value of cash flows.

Net present value (NPV): The present or current value of (discounted) future net cash flows given an interest rate (the discount rate). A positive project NPV normally indicates that the investment should be made, unless other projects have higher NPVs.

The result in the present value (PV) and net present value (NPV) should indicate if implementing the Cisco Wireless solution would have value for the customer.



Figure 12: Summary of financial results (graph and tables)

ROI details

This page presents a detailed breakdown of costs and benefits for risk-adjusted as well as non-riskadjusted estimates. It illustrates the assumptions used throughout the tool. Users should note that the tool is locked and the users cannot change any of the calculations. The data and calculation presented in this section was aimed to provide transparency by allowing the users to note the drivers of ROI.

The ROI details page (Figure 14) includes the following sections:

- Assumption summary
- Cost overview
- Benefit overview

Figure 13: Example of ROI details page

sco Wireles	s Solution ROI Calculator		
Navigation:	Home	Voice	
	Profile	Financial Summary	
	Core Wreless Infrastructure	Rol Details	
	VIIPO SOVERATIVE	Internations & rules and	
ROI details: T	his section presents the complete ca	iculation used throughout this tool.	
Foundational	l benefits		
	How many users are using their lap	top or another Wi-Fi connected device for work?	0
	What is the average amount of pro	ductive time a user is expected to recover per day as a result of having network access anywhere on-premise? (Minutes)	0.50
	What is the average hourlyfully-loa	ided rate of your wireless connected workers?	\$38
	Productivity improvement		\$0
	What is the average number of gu	ests that require network access per month?	0
	What is the average time (minutes	required to provision a guest account?	0.25
	What is the average hourly fully-loa	ided rate of your wireless connected workers?	\$38
	Guest access: impact on IT person	and productivity	\$0
	What is the average number of gu	ests that require network access per month?	0
	What is the average time (minutes	required to provision a guest account?	0.25
	What is the average hourly rate of	external contractors?	\$150
	Guest Access: impact on guest pr	oductivity	\$0
	Please specify the number of users	you support annually for those ad hoc network deployments.	0
	What is the alternative cost to prov	ide wired aetwork connectivity per user for above situations?	\$400
	Wireless as a primary access		\$0
Context Awar	re benefits		
	How many unique assets (i.e., lapto	ops, Wi-Fi phones, projectors, etc.) are being tracked weekly?	0
	What is the average time spent loo	king per asset weekly? (Hours)	1.00
	What is the average hourly fully-los	ided rate of your wireless connected workers?	\$38
	End user productivity gain from i	mprovement in asset tracking	\$0
	How many assets are marked as los	t or remained uncovered monthly?	0
	What is the average cost per asset	lost?	0
	What is the number of months per	year?	12
	Asset recovery cost		\$0
	How many unique assets (i.e., lapto	ops, Wi-Fi phones, projectors, etc.) are being tracked weekly?	0
	What is the opportunity cost associ	ated with not having the asset available for an hour?	\$0
	What is the average time spent loo	king per asset weekly? (Hours)	1.00
	Asset recovery opportunity cost		50

Print capability

All the calculation sheets throughout this model offer the option to print as a PDF (so that you can email the file to your customer) or to a local printer.

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Figure 14: Print function

isco Wireles	s Solution - ROI Calculator								
Navigation:	Home	Voice				OF INT	Name of company		
- (Profile	Financial Sum	nmary .			Printer I	Name/title of contact		
	Core Wireless infrastructure	ROIDeta	la				Preparer name		
	Video Surveillance	Methodology O	werview				Date		
inandal sumr and non-risk a consolicitoria	nary result: This page displays o adjusted financial results as we financial summary	onsolidated ROI info I as distributions of t	rmation for the C benefits and cost	isce Unified Wi s. To view detail	reless Network bar s on how the calco	ted on the inputs alations were peri	provided in the previous pages. formed click on "ROI Details" in	Scroll down to si the Navigation b	es risk adjusted ar above.
	Financial	summary - non-risk	kadjusted				Consolida	ted financial sum	mary
	\$0 7				-				
	50				-		Categories	ion-risk adjusted	Risk adjusted
	50						ROI	0%	0%
							Payback (months)	0	0
Thousands	50				Total	cost	Total benefits	50	50
	\$0				-	eoure .	Total return	50	50
	50				- Total	benefits			
	50				-Payb	ack			
	50				-				
	50				-				
	50				-				
	50								
ion-Risk Adju	Initial sted Financial Summary	Year 1	Year 2	Year 3					
Cete	gories Initial	Year 1	Year 2	Year 3	Total	NPV			
fotal benefits	so	\$0	50	\$0	so	\$0			
fotal costs	\$0	\$0	\$0	\$0	\$0	\$0			
Annual cash t	10vv 50	so	50	50	50	50			
lisk Adjusted	Financial Summary								
Cate	zgories Initial	Year 1	Year 2	Year 3	Total	NPV			
lotal benefits	S	\$0	50	50	so	SO			
lotal costs	51	50	50	50	50	50			
Annual cash f	1049 \$1	\$0	\$0	\$0	\$0	\$0			
	honefit coult commany								

The pages have been preformatted and the users are not required to make any adjustments. Printing a PDF document will require the user to have the software available on your machine. If you have any questions concerning the appropriate PDF software contact your IT team.

Guidance when using local printer: This is a simple process. By clicking on the "Print" button on top of the financial summary page (see Figure 14), you can get a physical copy of the final version of the entire document.

Guidance when printing a PDF: By clicking on the "Print" button, the list of printers will allow you to choose a printer where you can select PDF as an option. The user is required to save and name each sheet as it prints. We recommend labeling the sheets as "Home", "Profile", "Core wireless infrastructure", "Video surveillance", "Voice", "Financial summary", and "ROI details". You can change the names of the sheets as it makes sense to you. <u>NOTE</u>: If you are not interested in printing and saving individual files for each of the sheets labeled above. You can use Excel print functionality and print as PDF. You are not required to format any pages. All pages have been formatted. However, you need to always select "Entire Workbook". Ensure that "Ignore print areas" always remains unchecked.

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Print		? 🛛
Printer Name: Adobe PDF	~	Properties
Status: Idle Type: Adobe PDF Converter Where: My Documents*.pdf		Fin <u>d</u> Printer
Comment:		Print to file
Print range • <u>All</u> • Page(s) <u>From:</u> • <u>Io:</u> • • • • • • • • • • • • • • • •	Copies Number of <u>c</u> opies:	1
Print what O Selection O Active sheet(s) Ignore print areas		✓ Collate
Preview	ОК	Close

Figure 15: Printer PDF selection