# **VERSITY** Consumer Grade TCO

Versity

12:06

spectralin

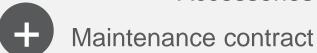


## Calculating Total TCO for Mobility

Purchase price

Software

Accessories



**HARD Costs** 



**SOFT Costs** 



Let's take a look at the HARD costs

Three Examples...



# Example 1: No Scanner Three Year Hard Costs - No Replacement

| VERSITY                             |                             |          | IPHONE 8 |          |                      |        |        |          |
|-------------------------------------|-----------------------------|----------|----------|----------|----------------------|--------|--------|----------|
| HARD COSTS                          | YEAR 1                      | YEAR 2   | YEAR 3   | TOTAL    | YEAR 1               | YEAR 2 | YEAR 3 | TOTAL    |
| Smartphone + battery, charger       | <b>1,200</b> <sup>(1)</sup> | 0        | 0        | 1,200    | 810                  | 0      | 810    | 1,620    |
| Additional battery                  | 89                          | 0        | 89       | 178      | 140 <sup>(5)</sup>   | 140    | 140    | 420      |
| 2 <sup>nd</sup> Shift smartphone    | na                          | na       | na       | na       | na                   | na     | na     | na       |
| Application manager (SAM)           | 3.50                        | 3.50     | 3.50     | 10.50    | na                   | na     | na     | na       |
| EMM \$4/device per month            | 48                          | 48       | 48       | 144      | 48                   | 48     | 48     | 144      |
| Support                             | <b>317</b> <sup>(2)</sup>   | 0        | 0        | 317      | 150 <sup>(3)</sup>   | 150    | 150    | 450      |
| HW failure resulting in replacement | Included                    | Included | Included | Included | 14.84 <sup>(4)</sup> | 15.09  | 15.69  | 45.62    |
| TOTAL \$                            | 1,657.50                    | 51.50    | 140.50   | 1,849.50 | 1162.84              | 353.09 | 353.69 | 1,869.62 |
|                                     |                             |          |          |          |                      |        |        |          |

- (1) Versity 9540 Wi-Fi only
- (2) 3-year SpectraCare Maintenance
- (3) \$150/year per smartphone
- (4) HW failure resulting in replacement-Warranty not covered Source VDC TCO Models 2013
- (5) Mophie Juice pack @ 69/per. Need 2x and replace yearly



\$20 Lower

# Example 2: No Scanner Three Year Hard Costs - Replace after Year 2

|                                     | VERSITY                     |          |          |          | IPHONE 8             |        |          |          |
|-------------------------------------|-----------------------------|----------|----------|----------|----------------------|--------|----------|----------|
| HARD COSTS                          | YEAR 1                      | YEAR 2   | YEAR 3   | TOTAL    | YEAR 1               | YEAR 2 | YEAR 3   | TOTAL    |
| Smartphone + battery, charger       | <b>1,200</b> <sup>(1)</sup> | 0        | 0        | 1,200    | 810                  | 0      | 810      | 1,620.00 |
| Additional battery                  | 89                          | 0        | 89       | 178.00   | 140                  | 140    | 140      | 420.00   |
| 2 <sup>nd</sup> Shift smartphone    | na                          | na       | na       | 0        | 0                    | 0      | 0        | 0        |
| Provisioning tool                   | 3.50                        | 3.50     | 3.50     | 10.50    | na                   | na     | na       | 0        |
| EMM \$4/device per month            | 48                          | 48       | 48       | 144      | 48                   | 48     | 48       | 144.00   |
| Support                             | <b>310</b> <sup>(2)</sup>   | 0        | 0        | 310      | 150 <sup>(3)</sup>   | 150    | 150      | 450      |
| HW failure resulting in replacement | Included                    | Included | Included | Included | 14.84 <sup>(4)</sup> | 15.09  | 14.84    | 45.62    |
| TOTAL \$                            | 1,650.50                    | 51.50    | 140.50   | 1,842.50 | 1,162.84             | 353.09 | 1,163.69 | 2,679.62 |
|                                     |                             |          |          |          |                      |        |          |          |

- (1) Versity 9540 Wi-Fi only
- (2) 3-year SpectraCare Maintenance
- (3) Support \$150/year per iphone
- (4) HW failure resulting in replacement-Warranty not covered Source VDC TCO Models 2013
- (5) Mophie Juice pack @ 69/per. Need 2x and replace yearly

**\$837 LOWER** 



#### Example 3: With Scanner Three Year Hard Costs - No Replacement

#### **VERSITY**

#### **IPHONE 8**

| HARD COSTS                              | YEAR 1                      | YEAR 2 | YEAR 3 | TOTAL    | YEAR 1                    | YEAR 2 | YEAR 3   | TOTAL    |
|---|-----------------------------|--------|--------|----------|---------------------------|--------|----------|----------|
| Smartphone + battery, charger           | <b>1,700</b> <sup>(1)</sup> | 0      | 0      | 1,700    | 810                       | 0      | 810      | 1,620    |
| Additional battery                      | 89                          | 0      | 0      | 178.00   | 0                         | 0      | 0        | 0        |
| 2 <sup>nd</sup> shift smartphone        | na                          | na     | na     | 0        | 0                         | 0      | 0        | 0        |
| Application manager (SAM)               | 3.50                        | 3.50   | 3.50   | 10.50    | 0                         | 0      | 0        | 0        |
| Barcode scanner                         | Included                    | 0      | 0      | 0        | <b>500</b> <sup>(4)</sup> | 0      | 0        | 500      |
| Support for Barcode scanner             | Included                    | 0      | 0      | 0        | 155 <sup>(5)</sup>        | 0      | 0        | 155      |
| EMM \$4/device per month                | 48                          | 48     | 48     | 144.00   | 48                        | 48     | 48       | 288      |
| Support                                 | <b>410</b> <sup>(2)</sup>   | 0      | 0      | 410.00   | 150 <sup>(6)</sup>        | 150    | 150      | 450      |
| HW failure resulting in replacement (5) | 0                           | 0      | 0      | 0        | 14.84 <sup>(3)</sup>      | 15.09  | 15.69    | 45.62    |
| TOTAL \$                                | 2,250.50                    | 51.50  | 140.50 | 2,442.50 | 2,685.84                  | 551.09 | 1,361.69 | 3,058.52 |

- (1) Versity 9553 Wi-Fi with scanner
- (2) 3-year SpectraCare Maintenance
- (3) Source VDC TCO Models 2013

- (4) 3<sup>rd</sup> party barcode scanner sled
- (5) Honeywell 3year support is \$155
- (6) Support \$150/year per iphone





#### HARD Cost Calculator - Work with your Customers

#### Ask these questions to enter the amounts specific to your customer

| Hard | Costs | 3-Year | TCO | Calculator |
|------|-------|--------|-----|------------|
|------|-------|--------|-----|------------|

| We would like to understand be<br>By answering these questions<br>TCO calculator. | etter how you do things today.<br>, we can put them into our HARD Cost                                       |
|---|--|
| Do you need your mobile device to be available 24x7?                              | If yes, Do you use a Mophie juice battery pack sled? If so, how much do you pay? Enter \$ for pack.          |
| Do you have to buy two battery packs per phone?                                   | Do you need to replace it every year?  If yes, enter the value for years 1,2, and 3                          |
| Or do you prefer to have a backup smartphone b/c you are using a scanner sled     | If so, how much is your 2 <sup>nd</sup> shift phone? Enter \$ for shift phone.                               |
| How much is your scanner sled?  | If so, is it around \$500?   |
| Do you pay support services for your sled?  | If so, is it around \$155/3 years per device?  |
| Do you pay for a provisioning tool?   | If so, enter \$.   |
| How much do you pay for an EMM?   | If so, do you pay \$4/month per device? Include 2 <sup>nd</sup> shift smartphone.                            |
| How much do you pay for your device support per year?                             | Is support \$150/year per device. Remember to calculate deductibles for full replacement or out of warranty. |

| CONSUMER   |                        |                 |            |          |            |            |
|------------|------------------------|-----------------|------------|----------|------------|------------|
| TOTAL      | NOTES                  | VALUES USED     | YEAR 1     | YEAR 2   | YEAR 3     | TOTAL      |
| 1,700.00   | Versity w/ scanner     | \$810           | 810.00     | 0.00     | 810.00     | 1,620.00   |
| 178.00     | Refresh battery year 3 | Mophie \$70/per | 0.00       | 140.00   | 140.00     | 280.00     |
| 0.00       | na                     | \$810           | 810.00     | 0.00     | 0.00       | 810.00     |
| 10.50      | SAM 3.50/year/device   | \$0             | 0.00       | 0.00     | 0.00       | 0.00       |
| 0.00       | na                     | \$500           | 500.00     | 0.00     | 0.00       | 500.00     |
| 0.00       | na                     | \$155           | 155.00     | 0.00     | 0.00       | 155.00     |
| 144.00     | \$4/year/device        | \$4             | 96.00      | 96.00    | 96.00      | 288.00     |
| 410.00     | 3 Year Spectracare     | \$150           | 300.00     | 300.00   | 300.00     | 900.00     |
| 0.00       | na                     | VDC Research    | 14.84      | 15.09    | 15.69      | 45.62      |
| \$2,442.50 |                        |                 | \$2,685.84 | \$551.09 | \$1,361.69 | \$4,598.62 |

CLICK TO LAUNCH
HARD Cost TCO
Calculator



# Let's take a look at the SOFT costs





## Calculating BASIC SOFT Costs

#### **SOFT COSTS**

Mobile Worker + IT Support

Average Failure Rate X Average
Productivity
Loss per
Failure

X

Hourly Mobile Employee

+

Average Failure Rate

X

Average IT
Support
Required per
Downtime

X

Hourly IT wage







# Using Industry Averages for Failure Rates

#### Average Annual Failure Rate (HW) YEAR 1 YEAR 2 YEAR 3 **DEVICE FAILURE** is the leading **Average Non-Rugged** 17.3% 17.6% 18.3% cause of downtime **Smartphone** Non-rugged smartphones are **Average Rugged** ~2x more likely to 10.1% 7.9% 9.2% **Enterprise** fail (breakage) **Smartphone**

Source: VDC TCO Soft Cost Model, 2013



#### SOFT Cost Calculation - Work with your Customers

#### Ask these questions to enter the amounts specific to your customer

#### SOFT Costs TCO Calculator

We would like to understand better how you do things today. By answering these questions, we can put them into our SOFT Costs TCO calculator.

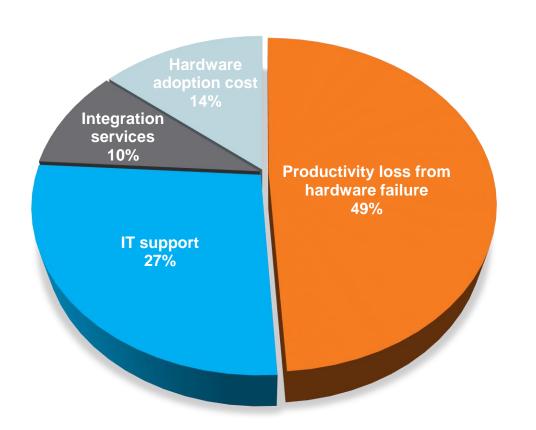
- 1 How many devices do you have deployed or plan to deploy?
- Can you tell us if you track your failures in an asset management application? Enter value by week
- 3 How many devices do you RMA per week?
- 4 How many help desk calls do you receive per week?
- What is your backup strategy? Do you keep spares? If so, how many do you keep? Who manages those spares?
- 6 How many mobile workers do you support?

|    | Minutes | Hourly  | Per Week    | Per Month    | Per Year       |
|----|---------|---------|-------------|--------------|----------------|
|    |         |         |             |              |                |
| hг | 30      | \$45.60 | \$2,280.00  | \$9,120.00   | \$109,440.00   |
| hr | 30      | \$45.60 | \$228.00    | \$912.00     | \$10,944.00    |
| г  | 30      | \$33.00 | \$330.00    | \$1,320.00   | \$15,840.00    |
| -  | 10      | \$33.00 | \$1,100.00  | \$4,400.00   | \$52,800.00    |
|    |         |         | \$3,938.00  | \$15,752.00  | \$189,024.00   |
|    |         |         |             |              |                |
|    |         |         |             |              |                |
| ег | 58      | \$44.50 | \$43,016.67 | \$172,066.67 | \$2,064,800.00 |
|    |         |         | \$48,054,67 | \$192,218.67 | \$2,306,624.00 |

CLICK TO LAUNCH
SOFT COST TCO
CALCULATOR



# Industry Averages Site Productivity Loss is 49% of Total TCO



# **Downtime** remains a critical issue

Mobile devices supporting more mission-critical applications

Impact to customer service, internal productivity, employee morale





## **Considerations Beyond TCO**

# USER PRODUCTIVITY

- Audio acoustics sound pressure levels
- Screen size and resolution levels – impact on productivity and battery efficiency
- Screen resiliency to environmental elements – moisture, dust
- Battery and power management options

#### DEVICE RELIABILITY

- Wi-Fi performance
- Sled solutions switch and contact ratings, battery architecture
- Temperature for operating and storage
- Chemical resistance

#### IT CONTROL

- Users vs IT controlled OS updates
- Device launcher flexibility
- Device remote control
- File management
- Device roadmap visibility
- Logistics overhead distribution certificate updates
- Maintaining enterprise security and privacy
- EMM integration
- Removal of unwanted services
- Remote reboot
- Enabling enterprise API access
- EMM ability to lock configuration profiles



# References



# 3<sup>rd</sup> Party Sled and Battery Pack

Honeywell Captuvo Enterprise Sled for Apple iPhone 6 – \$682.99

 Honeywell Limited comprehensive Service – extended \$155.99 for 3 years

Mophie Juice Pack for iPhone 6 – \$69.99







**HONEYWELL CAPTUVO SLED** 



#### ... More SOFT Costs

https://thenextweb.com/apple/2018/07/14/report-apples-iphone-6-has-the-highest-failure-rate-among-iphones-but-samsung-is-worse/

Chemical resistance **Additional** OS churn – less than a year soft costs to be considered 3<sup>rd</sup> party accessories support for iphone models 2<sup>nd</sup> shift phones add to deployment and management overhead Security risks Employee satisfaction

