PHONE UPDATE SCRIPTS

Project Report

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EXECUIVE SUMMARY

The Phone Update Scripts automated the update process for the Lumia devices that are set to replace the EPOS devices in the field. They helped make the process faster and much easier to execute. They have been tested and have already been enforced.

CHAPTER I: INTRODUCTION

The Phone Update Scripts are a pair of programming scripts written in Microsoft DOS to automate and streamline the rather tedious process of updating the operating systems of the Microsoft Lumia phone.

These scripts were designed to update the Microsoft Lumia devices that are going to replace EPOS devices with internet. These scripts not only reduce the time it takes to update these phones but also decreases the skill level required to do the same by a significant margin. Hence, with the help of these scripts any one with very basic knowledge of computers and phones and no knowledge of DOS can perform offline updates on said devices.

**1.1 Problem Statement**

Updating Lumia phones offline takes a lot of time and skilled personal are required to perform the task with basic knowledge of DOS.

**1.2 System Requirements**

* Any computer/laptop with Windows 10 installed
* Access to iutool and win10 image file
* An OTG USB 2.0 to USB TYPE B transfer cable

**1.3 Compatible Phones**

Refer to the Appendix to the list of compatible phones.

CHAPTER II: PROCEDURE AND PURPOSE

The Phone Update process demands the need for two scripts. The first script to install Windows 10 on the Windows 8 device connected via OTG cable. Since the image found of Windows 10 only contained English United States, a second script is also required to install the English-India language. Without this script, the phone’s keypad won’t function. The same script can be used to install any other language in the phone by just changing the file in the root directory.

**2.1 First Script (OS Installation)**

The execution of both scripts is very simple. Once the phone is connected, just launch the first script (labelled Step 1). After update starts, connect the next phone and enter ‘1’ repeat or ‘2’ to exit.

**2.2 Second Script (Keypad Fix)**

Once phones are updated to Windows 10, connect them to the system again and perform the same procedure with the second script (labelled Step 2).

An alternative to running the second script can be hard resetting the phone by pressing the buttons in the following sequence during boot – **hold power and volume down until exclamation mark (!) is visible on screen, the press volume up, volume down, power button, volume down.** This will hard resent the phone. After hard reset, setting the country and language to United States of America and English (US) respectively solves the problem too.

CHAPERT III: SCRIPT CODE

The scripts are in batch format (.bat) and must be placed in the drive with label C:\ along with the images. These can be recreated by putting the code bellow in a text file with the extension .bat.

**3.1 First Script (OS Installation)**

*@echo off*

*title Step 1*

*echo This is OS Installation*

*:start*

*cd c:\iutool*

*iutool -l*

*iutool -V -p c:\win10*

*echo Enter 1 to repeat*

*echo Enter 2 to exit*

*set /p input=*

*if %input%==1 (*

*goto start*

*) else (*

*exit*

*)*

**3.2 Second Script (Keypad Fix)**

*@echo off*

*title Step 2*

*echo This is Keypad Fix*

*:start*

*cd c:\iutool*

*iutool -l*

*iutool -V -p c:\IME\123.cab*

*echo Enter 1 to repeat*

*echo Enter 2 to exit*

*set /p input=*

*if %input%==1 (*

*goto start*

*) else (*

*exit*

*)*

CHAPTER IV: TESTING AND CONCLUSION

These scripts were created with two goals, first to make the updating process faster, second to decrease the skill level required to perform the updates.

**4.1 Testing**

First, rate at which phones updates took place increased drastically. With the help of the scripts, 80 phones were updated in a day compared to 20/day earlier.

Second, employees with basic knowledge of how to operate a computer were able to learn the update process.

Testing was done on more than 200 units of Microsoft Lumia 640 XL DS.

**4.2 Conclusion**

These scripts have made the update process of the Lumia phones faster and easier to execute.

APPENDIX

List of compatible phones:

* Microsoft Lumia 430/435
* Nokia Lumia 520/520T/521/525/526
* Microsoft Lumia 532
* Microsoft Lumia 535
* Microsoft Lumia 540
* Nokia Lumia 620
* Nokia Lumia 625/625H
* Nokia Lumia 630
* Nokia Lumia 635 (RM-974/RM-975/RM-1078)
* Nokia Lumia 636 (RM-1027)
* Nokia Lumia 638 (RM-1010)
* Microsoft Lumia 640
* Microsoft Lumia 640 XL
* Nokia Lumia 720/720T
* Nokia Lumia 730/735
* Microsoft Lumia 735 (Verizon RM-1041)
* Nokia Lumia 810 (T-Mobile US RM-878)
* Nokia Lumia 820
* Nokia Lumia 822 (Verizon RM-845)
* Nokia Lumia 830
* Nokia Lumia 920/920T
* Nokia Lumia 925/925T (RM-892/RM-893/RM-910)
* Nokia Lumia 928
* Nokia Lumia 929 Icon
* Nokia Lumia 930
* Nokia Lumia McLaren (id315-x)
* Nokia Lumia 1020
* Nokia Lumia 1320
* Nokia Lumia 1520
* Samsung ATIV S
* Samsung ATIV S Neo
* Samsung ATIV SE
* HTC One M8 for Windows
* BLU WIN HD/LTE
* LG Lancet VW820
* MCJ Madosma Q501
* MICROMAX W092
* MICROMAX W121
* HUAWEI Ascend W2
* Acer Liquid M220
* RAMOS Q7
* Panasonic Toughpad FZ-E1
* TrekStor WinPhone 4.7

REFFERENCES

* XDA Developers - https://forum.xda-developers.com/windows-10-mobile/guide-win10-mobile-offline-update-t3527340