



# winhec

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# System Functional Test tools

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# Introduction and Agenda

## Session Introduction

Introduce System Functional Test tools

## Session Agenda:

Introduction

Customization

Test Items Coverage

Demo

...

# Introduction

# Introduction

- Partners need an easy-to-use and efficient testing tools for Windows Phone and Windows 8.1 devices.
- Windows 10 introduces the Universal Windows Platform (UWP), evolving Windows Runtime model and bringing it into the Windows 10 unified core.
- Partners can build Windows 10 devices for PC, tablet, mobile, IoT... devices.

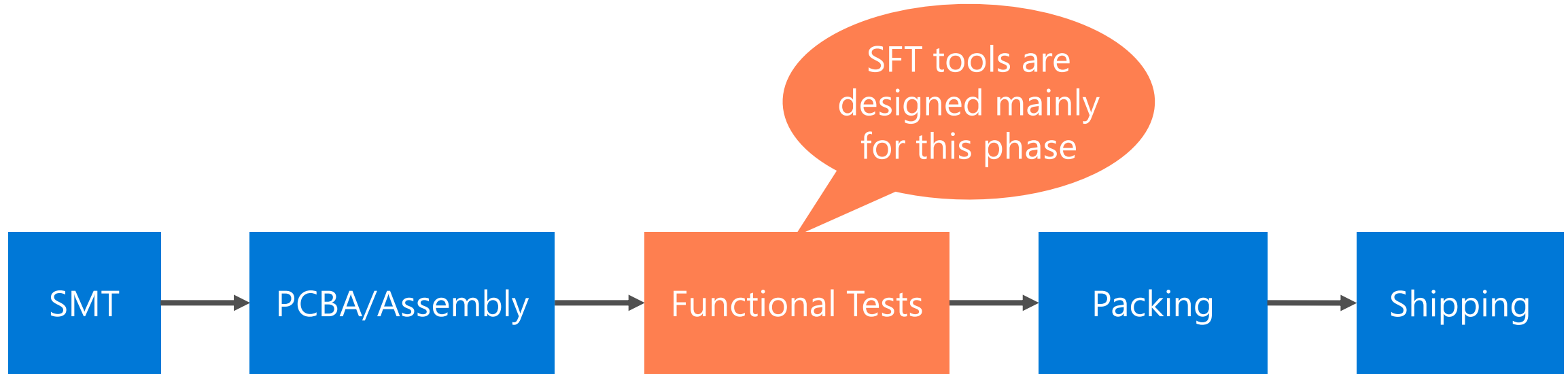
# Introduction – cont.

- Sample apps to support partners' Windows system manufacturing functional tests.
- An integrated application run in Windows OS.
- Support Windows 10 Desktop and Windows 10 Mobile platforms.
- Classic windows program version and Universal Windows Platform app version

# Introduction – cont.

- Support different languages
  - English
  - Traditional Chinese
  - Simplified Chinese
- Design Consideration:
  - Easy to use
  - Flexibility
  - Customizable
  - Configurable auto-pass tests

# Introduction – cont.



*High-level Windows systems manufacturing flow*



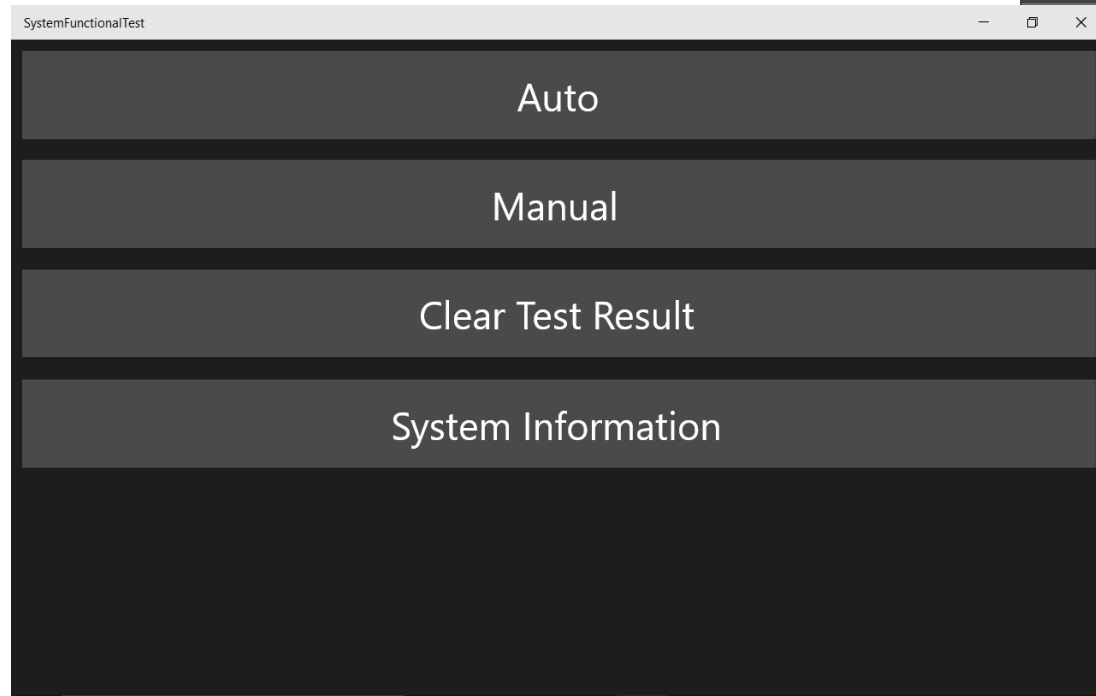
Customization

# Configuration File

- SFT tools support configuration file.
  - Configure language to use
  - Define test phases
  - Define test item behaviors
  - ...

# Test phases

- Different phases can be defined to meet different needs



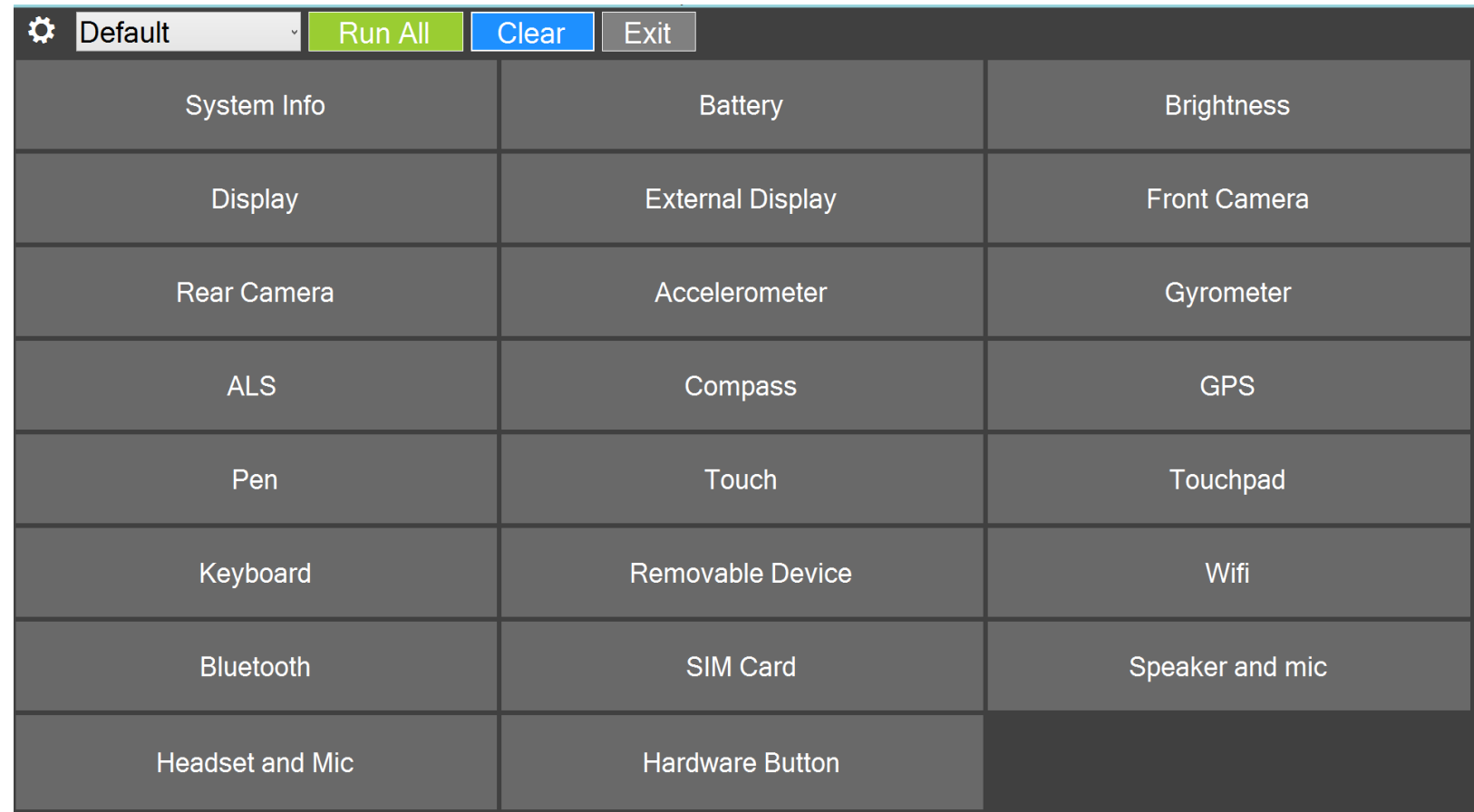
# Pre-defined auto-pass conditions

- Test items support pre-defined auto-pass conditions.
- WiFi APs – pre-defined AP list
- Bluetooth devices – pre-defined BT device list
- System Information – pre-defined system information to compare
- ...

# Test Items Coverage

# Test Items

- Human Interface
- Connectivity
- Card Slots
- Camera
- Sensors
- Audio Input
- Misc



The screenshot shows a classic Windows application window with a dark grey background. At the top, there is a menu bar with a gear icon, a dropdown menu set to 'Default', and three buttons: 'Run All' (highlighted in green), 'Clear' (highlighted in blue), and 'Exit'. Below the menu bar is a grid of 12 test items arranged in 4 rows and 3 columns. The items are: System Info, Battery, Brightness, Display, External Display, Front Camera, Rear Camera, Accelerometer, Gyrometer, ALS, Compass, GPS, Pen, Touch, Touchpad, Keyboard, Removable Device, Wifi, Bluetooth, SIM Card, Speaker and mic, and Headset and Mic, Hardware Button. The bottom-right corner of the grid is shaded dark grey.

System Info	Battery	Brightness
Display	External Display	Front Camera
Rear Camera	Accelerometer	Gyrometer
ALS	Compass	GPS
Pen	Touch	Touchpad
Keyboard	Removable Device	Wifi
Bluetooth	SIM Card	Speaker and mic
Headset and Mic	Hardware Button	

*Classic windows program version*

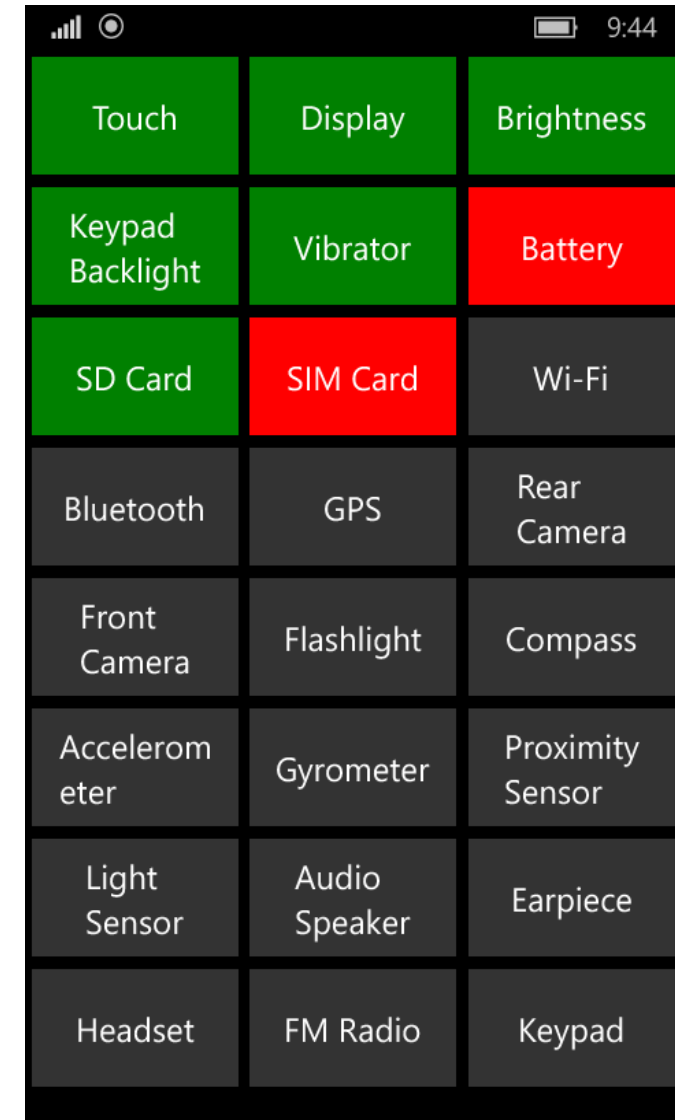
# Test Items – Cont.

- Human Interface
- Connectivity
- Card Slots
- Camera
- Sensors
- Audio Input
- Misc

Touch	Pen	Display
Brightness	Battery	SD Card
USB	SIM Card	Wi-Fi
Bluetooth	GPS	Rear Camera
Front Camera	Flashlight	Compass
Accelerometer	Gyrometer	Proximity Sensor
Light Sensor	Audio Speaker	Headset
External Display	Keypad	Keyboard
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# Test Items – Cont.

- Human Interface
- Connectivity
- Card Slots
- Camera
- Sensors
- Audio Input
- Misc



*UWP app on Windows 10 Mobile*



# SFT tools demo

