

Datasheet



Wireless Handheld Validation Services

Overview

In a largely saturated wireless marketplace, next generation wireless and its attendant data services are critical to the profitable future of wireless carriers across the world. However, the fact that consumers remain largely unconvinced is evident from the lack of supplementary revenues from mobile services other than messaging. To attract users to new services, there is clearly a need for a flawless device and service test strategy.

Such a strategy coupled with the right approach will enable wireless operators, original equipment manufacturers, and service and software providers to deliver superior value added services to the market quickly and impeccably across multiple devices and networks.

The Challenges of Introducing New Devices and Services

In the rapidly changing, heterogeneous communication technology environment, wireless device manufacturers and service providers encounter several challenges while introducing new devices and services. These include:

- Increase in complexity
- Rising costs
- Compressed time-to-market cycle
- Lack of common standards across manufacturers
- Convergence driving non-connectivity functionalities such as multimedia applications
- Integration with back office systems for service usage

The Infosys Wireless Handheld Device Validation Lab provides end-to-end validation services that extend the capabilities of equipment manufacturers, operators and service providers. The lab utilises resources and expertise flexibly to get products into the market maintaining high quality levels.

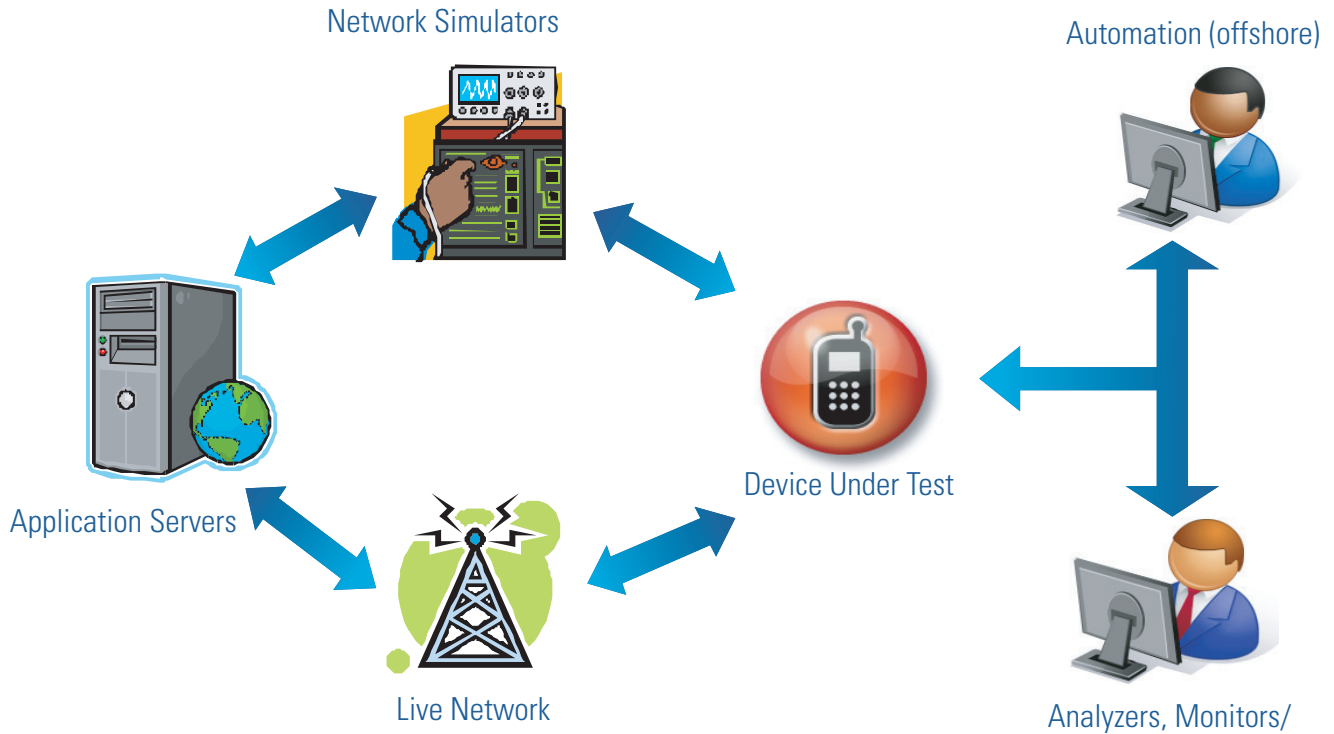
Multiple Approaches to Testing from Infosys

Infosys offers several different approaches to maximise the efficiency and accuracy of validation ensuring quicker rollouts. For example, we can perform validation tests remotely or at the customer's site using simulators or live networks as illustrated in Figure 2. Each testing cycle takes into account the logistics, maturity level of the device and compatibility with test tools.

Figure 1 – Increasing complexity has inflated the cost of launching a handset

Operator Acceptance Cost: Approx \$100,000 USD				Operator Acceptance Cost: Approx \$800,000 USD			
40 Devices Launched Per Year				500 Devices Launched Per Year			
Text Content		WAP Portals		Operator Portal (Voda Live etc)		User Generated Portal (Mobile Mash Ups)	
		WAP	HTML	Media Streaming	Media On Demand		
		SMS	EMS	Push E-Mail	IM	DRM	
			MMS	Video Calling	Push To Video		
Voice	Text	Camera	Media Player	Office Apps.	Sat Nav	Full Convergence	
30,000 lines of code per handset				10 million lines of code per handset			
		Bluetooth	Wi-Fi	(A-)GPS	DVB H	WiMAX	
GSM	GPRS	EDGE	W-CDMA	HSDPA	HSUPA	LTE	
Then				Now		Future	

Figure 2 – Infosys provides multiple testing avenues to ensure quicker product launches

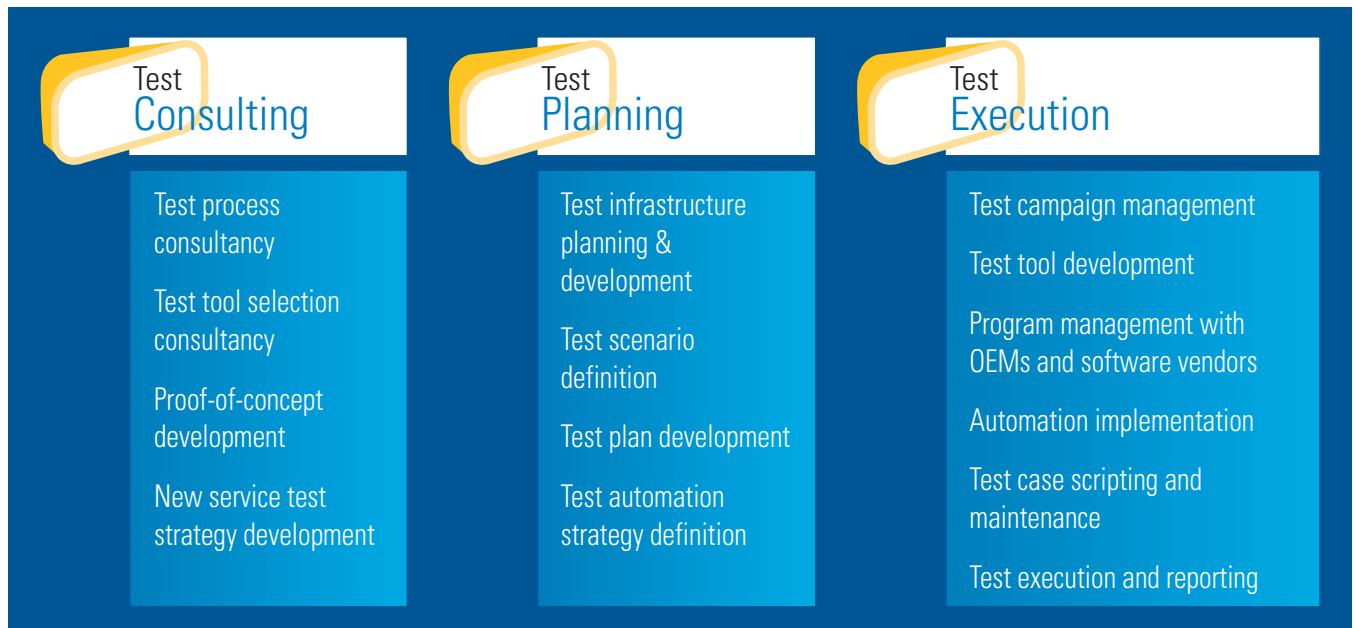


A device can be tested in multiple ways to maximise efficiency and accuracy. This takes into account issues around logistics, relative newness of device type and compatibility with test tools.

Spectrum of Service Offerings

Infosys offers the entire spectrum of testing services from developing test strategies to the execution of multiple tests, as follows:

Figure 3 – Infosys’ wide spectrum of testing services



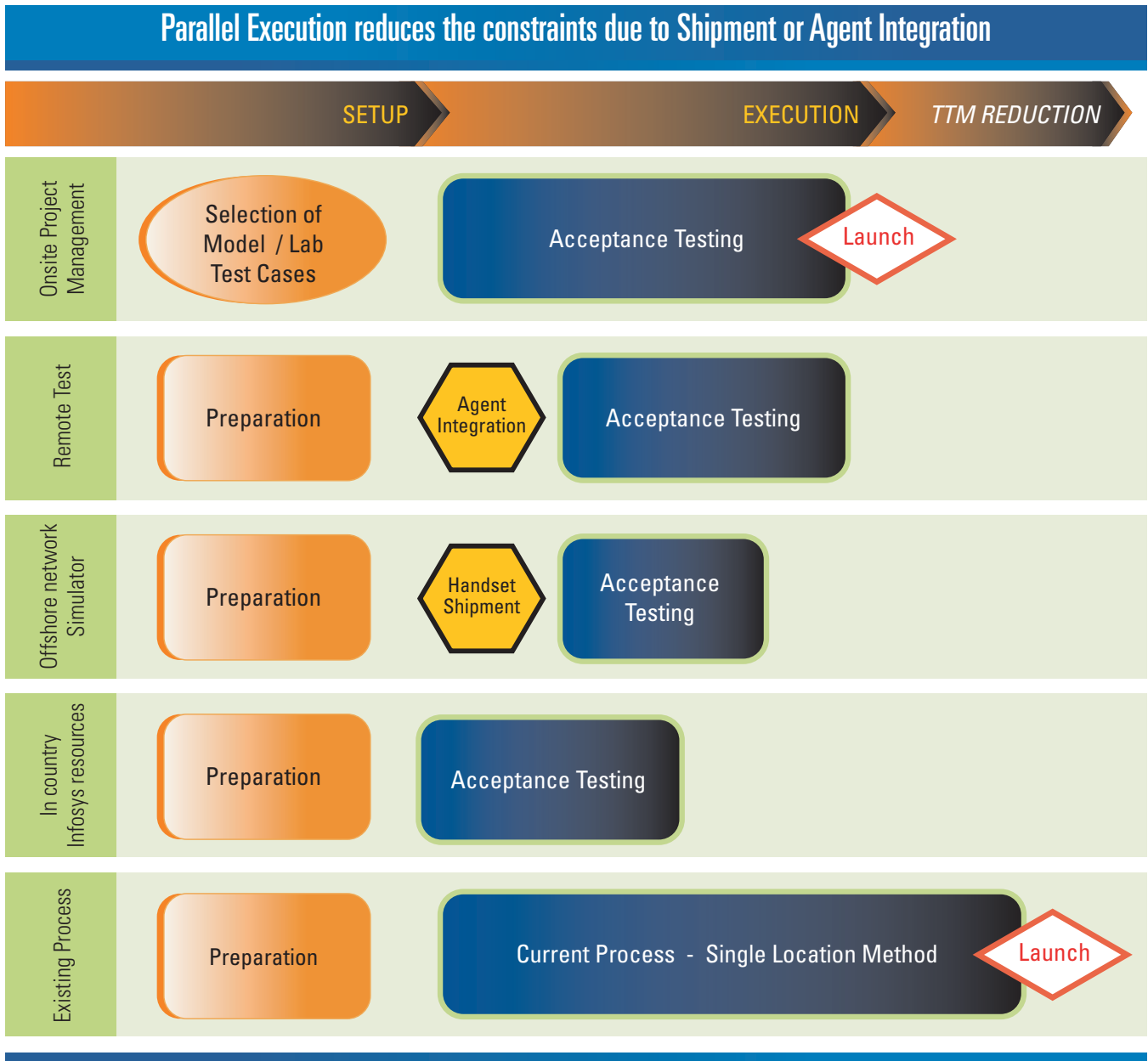
Details of Validation Service Offerings

The Infosys Wireless Handheld Validation Lab provides end-to-end testing services that extend the capabilities of equipment manufacturers, operators / carriers and application providers throughout the certification process. At consistently high quality levels, our Handheld Validation Lab deploys resources and expertise flexibly to get products to market when you need them. The following chart lists the end-to-end services provided by the Handheld Validation Lab:

Figure 4 – Infosys provides end-to-end testing services for all stakeholders in the wireless telecommunications business



Figure 5 – Infosys’ parallel execution process provides significant overall time-to-market advantages

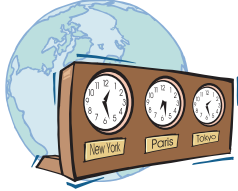
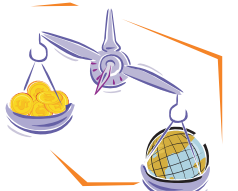



The Infosys Advantage

Infosys’ Wireless Handheld Validation services help stakeholders reduce testing costs and time-to-market allowing flexibility in using existing resources and the approach to testing. These combined benefits enable smooth and quick rollouts of reliable, flawless new products with new features, in a wireless world that is characterised by rapid changes in models and decreasing product life that can be measured in months.

The following table shows the benefits of using Infosys' Wireless Handheld Validation services in terms of time, cost and flexibility:

Figure 6 – The many advantages of Infosys' Wireless Handheld Validation services

 <p>TIME</p>	TIME	<ul style="list-style-type: none">• Improved time-to-market for all players in the wireless value chain• Shorter testing cycles by using time zone advantages for a longer day• Improved productivity with automation of test cases that enable 24-hour testing• Overall reduction in time-to-market for devices and new applications
 <p>COST</p>	COST	<ul style="list-style-type: none">• Reduced capex by leveraging Infosys test lab infrastructure• Reduced costs due to fewer iterations of device testing• Reduced costs through the utilisation of a judicious mix of onsite-offshore efforts which provide over 25% reduction in time-to-market.
 <p>FLEXIBILITY</p>	FLEXIBILITY	<ul style="list-style-type: none">• Frees up resources to develop and sell new services instead of testing them• Specialist resource availability based on the client business requirement• Flexibility in running test cycles across client resources and / or offshore team

For more information, please visit
<http://www.infosys.com/engineering-services/productengineering/default.asp>

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About Infosys

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