

# **Wireless Village Interoperability Testing Process**

**Draft Final** 

v1.0

Village Fest #1 Document

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## 1 REVISION HISTORY

## 1.1 Document Update History

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25 April 2002		0.20 Added process flow	Ericsson
30 April 2002		0.25 Added new process flow	Ericsson
08 May 2002		0.30 Added IOPCom views	Ericsson
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02 July 2002		0.70 BizCom remarks, document formalia,	Ericsson
		some definitions	
10 July 2002		1.0 Approved by BizCom	SonyEricsson

### 1.2 Document State Table

Document State	Date Achieved / Started	Comments
ASSIGNED	10 April 2002	
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APPROVED	15 May 2002	
BizCom APPROVED	10 July 2002	
PUBLISHED		

## 2 REFERENCES

[1]	Wireless Village – Conformance Statement Document
[2]	Wireless Village – IOP Committee Charter
[3]	Wireless Village – Wireless Village Compliance Definitions
[4]	Wireless Village – WV IOP Test Event Non-Disclosure Agreement
[5]	Wireless Village – Conformance Process
[6]	Wireless Village – Conformance and Interoperability Tests
[7]	Wireless Village – Problem Report Handling Process

#### 3 INTRODUCTION

The purpose of this document is to define the steps of the Wireless Village Interoperability Testing process.

Any Wireless Village vendor, who is willing to bring Wireless Village implementations, clients or servers, to the markets is recommended to go through this process.

After accomplishing the process for a product, a vendor has the right to use the Wireless Village logo for usage in marketing of its product.

All vendors are encouraged to accomplish not only the conformance but also the interoperability testing process.

#### 4 WIRELESS VILLAGE INTEROPERABILITY COMMITTEE, IOPCOM

Wireless Village Interoperability Committee (IOPCom) is formed from the representatives of Wireless Village sponsor and supporter companies.

The IOPCom is responsible for the organization and definitions of the Wireless Village Conformance Testing Process and the Interoperability Testing Process and also and the provision of appropriate specifications and tools. The IOPCom is responsible to make decisions related to problem situations. An example of a problem situation is an inconclusive outcome from testing (where neither a pass nor a fail verdict can be given).

The IOPCom can assign some of the tasks related to Wireless Village interoperability process to a 3rd party. E.g. test tool development, distribution of conformance testing documents and administration services. It can assign a subgroup bound with restrictions for dealing with sensitive information

The IOPCom is also responsible to communicate with Wireless Village Technical Committee in cases such as question of interpretation and problems in the Wireless Village technical specifications.

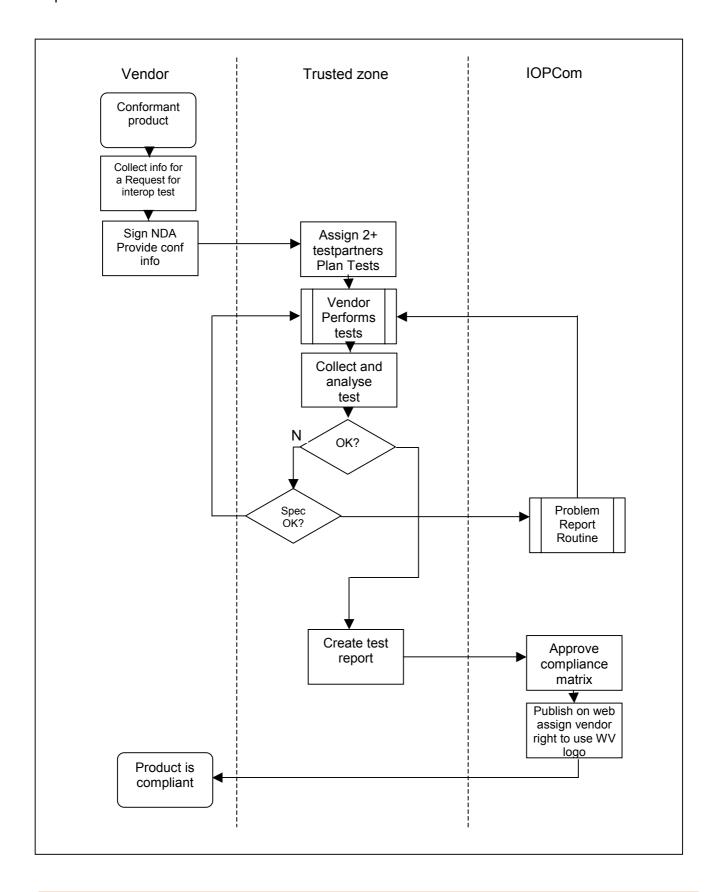
The responsibilities of the IOPCom are defined in IOP Committee Charter [2]. Please refer to the Wireless Village web pages (www.wireless-village.org) to find up-to-date information about the Wireless Village Interoperability Committee.

#### 5 WIRELESS VILLAGE OVERALL TESTING PROCESS

The total testing needed in order to be Wireless Village compliant is briefly described in the Wireless Village Compliance Definitions, ref [3]. That document also defines the different compliance statements that will result.

#### **6 WIRELESS VILLAGE INTEROPERABILITY TESTING PROCESS**

This chapter defines the actual Wireless Village interoperability testing process. Vendors are required to follow this process in order to fulfill the Wireless Village interoperability testing requirements.



#### 6.1 Test Methodologies

There will normally be products in different stages of completion and maturity, some fully compliant others compliant in parts and some not tested etc. In order to best suit the different needs alternative testing methods are preferred. During the initial interoperability events only one way of testing for compliance will be possible since the products submitted for test will almost all be new products or contain new functionality.

The test to be used is a document driven test and to be run manually since no test tools have yet been devised. The test specification to be used will be based the same document specifying the compliance tests ref. [6], so the interoperability tests will mostly be a regression test. This will ensure that the interoperability test will not likely cause any major late changes.

The version of the test specification used at the Village Fest will be the version that existed 4 weeks before the scheduled test event.

In order to improve the testing IOPCom is planning to add more tests and tools.

To ensure that future new IUTs will have other implementations to test towards IOPCom may require that previously approved implementations participate in operability events for up to 3 times.

## 6.2 Test preparations

The process applies to a Vendor, which has a IUT, either a client or server that implements the WV specifications and would like to have it tested for compliance.

There is currently only one alternative to achieve the Wireless Village compliance and that is by bringing the IUT to an interoperability event, a so called "Village Fest".

In order to be allowed to participate in the interoperability event the Vendor has to state conformance according to the requirements defined in ref [1].

The process leading to conformance is described in ref. [5].

#### 6.3 Village Fest Testing

Village Fest is the name for the actual Wireless Village interoperability-testing event. These events are scheduled to take place at least 4 times a year at various geographical locations.

IOPCom will publish a schedule for the Village Fest events and organize the events. IOPCom will also provide a testing schedule for the individual Village Fest.

All vendors have to perform one-to-one testing according to this schedule. The main purpose of scheduling is to secure and enable testing with as many counterparts as possible.

The Wireless Village Conformance Statement ref. [1] will be used as criteria to select suitable testing counterparts for each event.

A strict requirement to be allowed to enter a Village Fest is that the vendor has signed a NDA see. Ref [4]

A minimum requirement for proven compliance is that a server has been tested successfully towards two other vendors' clients and that a client vendor has successfully tested towards two other vendors' server implementations and with at least one other client implementation to prove end-to-end compliance

The actual testing has to be performed using test cases that are provided in the Wireless Village Conformance and Interoperability Test, ref. [6].

A test report form has to be filled out from each one-to-one testing session and then signed by both participants.

This means that the output of the Village Fest testing is a number of different test reports, in most cases two from each test sessions, which normally includes 3 partners. Completed test reports are returned to the IOPCom trusted zone.

The IOPCom trusted zone reviews each test result report. A criterion for passing this review is that test reports show successful test results with at least two other independent vendors' implementations.

This means that not every one-to-one test session has to be successful.

The actual testing in the Village Fest has to be performed with a IUT. IUT's include mobile phone software integrated on the device, desktop client software, server software integrated on the server hardware, OEM or toolkit software..

Use of compliant OEM and toolkit software or hardware intended for use as embedded parts in other products will not remove the need for testing these products.

#### 6.4 Use of the Wireless Village logo

Once an IUT has been found compliant according to the applied criteria the Vendor has the possibility to use the Wireless Village logo when promoting its product. The specific Logo Usage Guidelines are defined separately.

#### 7 VILLAGE FEST DIRECTIVES

This chapter consists of some directives related to Village Fest interoperability testing events.

#### 7.1 Confidentiality

Before participating in a Village Fest all companies, which will have participants at the Fest are required to sign an NDA with IEEE-ISTO acting on behalf of the Wireless Village ensuring confidentiality of the event, , see Ref. [4]. Please see Ref. [4] for the specific confidentiality terms.

#### 7.2 Village Fest participants

Invited participants for Village Fest events are a part of the vendor's Wireless Village engineering staff. The number of delegate members from each vendor has to be moderate. Individuals such as students, press, observers, sales and marketing professionals are not invited. Village Fests are not places to learn Wireless Village technology or events for marketing purposes. Village Fests are purely technical testing events and it is therefore strongly prohibited to join the Village Fest event with other intentions than to do Wireless Village interoperability testing.

In order to be able to have a Village Fest event at least 6 independent vendors with at least 3 clients and 3 server implementations must show up.

The IOPCom can declare that a Village Fest will only have the effect of an engineering event i.e. only be used for testing and that no right to use the Wireless Village will be granted at that event. In this case less vendors are required.

#### 7.3 Village Fest participation fees

There will normally be a fee for the Village Fest participation. This is necessary to cover the costs of planning, running and administering the Village Fest. Collection of participation fees is a part of the Village Fest registration process.

#### 7.4 IOPCom has the right to observe

The IOPCom is responsible to ensure that Village Fest events take place according to the requirements and directives described in this document. Therefore, the IOPCom assigned trusted entity has the right to observe that Village Fest participants are following these rules. This does not mean that the IOPCom has a right to violate the confidentiality directive above. Observation has to be done with a respect to vendors' right to protect the confidentiality of their products.

#### 8 PROBLEM HANDLING

As with any new technology, it is possible that there will be flaws in the Wireless Village Technical Specifications, test cases and within the interoperability testing process itself. Problem reports related to interoperability testing should be submitted to the IOPCom. Instructions on how to submit problem reports is described in the IOPCom Problem Report Process document. See ref. [7]

#### 9 TERMINOLOGY

#### 9.1 Definitions

See reference [2] "IOPCom Charter" and reference [3] "Compliance Definitions" for basic terminology and definitions.

Interoperability The definition of interoperability is the successful completion of the tests

defined in ref [6]. Interoperability shall be seen from an end user

perspective.

The testing shall at least include the test cases in the WV

interoperability test suite ref. [6]. WV requires that at least two tests must be performed successfully to be compliant. Additional testing is

encouraged, time and resources permitting.

Problem Report In this context a form describing a problem found with the test suites or

the WV specification during interoperability or conformance testing

Test Class The tests used for testing certain functionality

Trusted Zone Part of the otherwise open Wireless Village that will not give out

information which is stated as confidential but needed for Wireless

Village planning or testing purposes

Village Fest An interoperability event where different vendors' servers and clients

are tested towards each other to verify that they can interoperate

correctly according to test classes.

## 9.2 Abbreviations

IOPCom The Wireless Village Interoperability Committee

IUT Implementation Under Test; an actual server or client product

NDA Non Disclosure Agreement