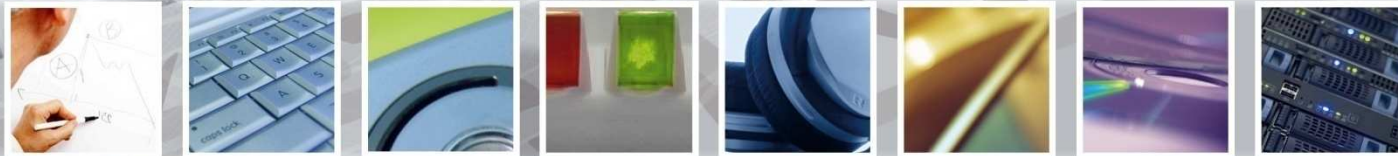


Introduction to Project WALTER

Sophia Antipolis – ETSI
06th October 2009





Main objective

Walter (Wireless Alliances for Testing Experiment and Research) is :

**Specifying, testing and improving
interoperability of broadband radio
devices**

and for that

Develops an international broadband test bed,
covering the needs, for research, industry and
regulators



At a glance

WALTER: *Wireless Alliances for Testing Experiment and Research*

Project Coordinator

Franck Le Gall – inno

Email: contact@walter-uwv.eu

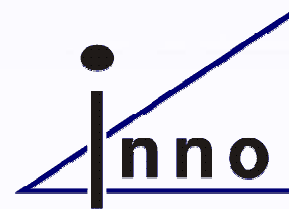
Project website: <http://www.walter-uwv.eu>

Duration: *from 01.01.08 to 12.31.2009*

Total Cost: €3.2m

EC Contribution: €2.2m

Contract Number: INFSO-ICT216312





Objectives

- ✓ The **WALTER** project intends to specify and develop the technologies required to
 - allows the conformance testing of both products **and** applications against developing UWB standards,
 - the co-existence of UWB technology with other radio technologies **and**
 - finally, the emergence of new opportunities by supporting field research.



Contributions

- ✓ Consolidation of test procedures in ETSI Harmonized Standards for broadband wireless devices in support of EU Directives.
- ✓ Assist development of UWB Harmonized Standards including mitigation techniques and coexistence mechanisms with potential radio victim services.
- ✓ Assist interoperability between UWB devices using multi vendors test events.



Overall approach

Worldwide federated testbeds addressing

- Short term needs of industry and regulators
- Long term needs of research communities.

IDENTIFICATION OF REQUIREMENTS

Regulatory

Standardisation

Research

TEST SPECIFICATIONS

Calibrations and measurement uncertainties

Interoperability

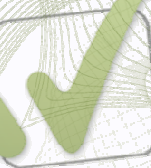
Testbeds architecture

WALTER TESTBEDS



vendors solutions

Plugtests



Validation





Workplan

WP 3

- Identify broadband Wireless Technologies Requirements.

WP 4

- Develop test specifications and procedures

WP 5

- Integrate and validate a Networked laboratory

WP 6

- Release 3 operational testbeds for certification



Benefits

- ✓ For **Chip and equipment/system manufacturer or a service provider**: Standardization/certification provides certainty which enables **new markets and revenue streams**.
- ✓ For **Licensed wireless operator**: Less - or ideally no - interference problems implies **lower opex**, Walter Test beds allow for **conformance and interoperability certification**.
- ✓ For **End user** : Increased trust and confidence based on **certified products** allowing **better service delivery**.



Impact & outcomes

IMPACT & OUTCOMES



- Market take up of broadband radio technologies

- Tools & Methods for validation of broadband radio devices

- Contribution to coexistence & interoperability of broadband radio technologies



Main deliveries

WALTER Specification of Regulatory Requirements

WALTER Specification of SDO Requirements

WALTER Specification of UWB Research Domain Requirements

WALTER Networked Laboratory. Set of preliminary requirements

WALTER Networked Laboratory. Operational configuration

WALTER Networked Laboratory. Final and validation report for Phase 1

WALTER report on test scenarios

WALTER report on limitations of test methods to include calibration and measurement uncertainties

WALTER test specifications (phase 1 & 2)

WALTER testbed architecture and specifications (Phase 1 & 2)

WALTER report on industry UWB solutions for testing

WALTER report on UWB interoperability plugtest

WALTER report on multi-vendor test bed evaluation

WALTER final report concerning the implementation of 3 testbeds

Available on: <http://www.walter-uwband.eu>



WiMedia cooperation

- ✓ Contact with WiMedia Alliance established since March 2008
- ✓ Shared interest confirmed at technical levels
- ✓ NDA signed in August 2008
- ✓ Shared Press Release published September 2008.
 - Easiest access to WiMedia Test specifications for WALTER members
 - Easiest access to WALTER regulatory tests and facilities for WiMedia members
- Co-organisation of test events
- Co-implementation of test procedures



Timeline

WP 1 & 2

WP 3

WP 4

WP 5

WP 6

★ Q1 - 2009

Phase 1:

Test procedure implementation for the current ETSI EN302065, UWB at 3,1 to 10,6 GHz

WP 3

WP 4

WP 5

WP 6

★ Q4 - 2009

Phase 2:

Test procedure for future ETSI EN including mitigation techniques (UWB at 60GHz)



Contacts

- ✓ Frank Le Gall (inno) Coordinator
- ✓ Philippe Cousin (ETSI) Project Strategy and liaisons
- ✓ Alan Dearlove (CTL) Project Technical Director

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<http://www.walter-uwb.eu>