



INTERNATIONAL ELECTROTECHNICAL COMMISSION

TECHNICAL COMMITTEE No. 100: AUDIO, VIDEO AND MULTIMEDIA SYSTEMS AND EQUIPMENT ADVISORY GROUP ON STRATEGY

PACT_009

Draft Response to the PACT Report
2003-03-31

PACT Taskforce Group (TG) identifies the importance of standardization of Network Human Interface (NHI) proposed by the PACT Report (100/AGS/63):

- PACT Report emphasizes the requirements for an interface technology between real world and cyber world and suggests to standardize the related technology.
- The Report investigates
 - * whole area of NHI
 - * key technologies to be standardized
 - * related standardization activities
- The Report concludes that TC100 AGS should discuss them and TC100 should deal with the NHI in its scope.

In accordance with the recommendation/resolution of the TC100/AGS and TC100 meetings in San Francisco, PACT TG met twice in

- Geneva, in Feb. 03, 2003
- Eindhoven, in Mar. 31, 2003

to discuss the issues of NHI from the TC100's point of view.

PACT TG proposes the following recommendations to TC100/AGS and TC100.

Recommendation 1: New TA on Human Interfaces for multimedia in the cyber world

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PACT Taskforce Group (TG) recommends that TC100 should establish a new TA which includes the projects;

(1) Generic guideline for users manual, structure and terminology, navigation, wizards (ref.1)

Due to the complexity of standardizing human interfaces in a way that would be useful to many cultures, the guideline should be an IEC TC100 Technical Specification in order to create regional, national or international standards for human interfaces for multimedia in the cyber world.

A number of technical solutions, specifications, and approaches already exist, and the technical specification should point to or reference these.

(2) Standards for local presence detection (ref.2)

There should be developed standards for a handheld personal device which includes personal data set in order to detect local presence (passive and active).

ZigBee is an example of the technology.

(3) Technical specifications for privacy protection and data security (ref.3)

There should be dealt with secure or privacy and protection of personal data via authorization by means of secure tokens in combination with biometrics data and historical personal data.

The technical reports or technical specifications should consider specific requirements due to national laws.

NOTE: For example, the provisions of the US Cable Act address privacy, as do the policies from the late 1990's from the US Department of Commerce and the US Federal Trade Commission. Such provisions, and others under consideration in the US, would have to be addressed in such a technical report or technical specification to make it applicable to the US. Likewise, other nations' policies would have to be considered and included.

NOTE: The standardization of generic biometrics is not included since JTC1/SC37 is taking care of it.

(4) Standard on ontology vocabulary and semantics (ref.4)

This standard on ontology vocabulary and semantics can be used to create ontology libraries for creation of e.g. user manuals.

NOTE: TC100 should build on existing international vocabulary and semantics standards where possible. When terms are technology-specific, for example, "priority," the TC100 should consider the differing views and technology applications among nations.

(5) Technical report(s) on identification and classification of resources (Ref.5)

Creating the overview document on identification and classification of resources related with TC100 equipment including their data sets of data elements with multiple values, there should be dealt with characterizing resource components, resource applications and service characteristics, and the types of usage.

NOTE: Objects should not specify model numbers or products in any way. This work should consider that already done by the 1394 Trade Association ("TA"). Additionally, the level of abstraction is important to generating a useful standard. For example, exactly what level of abstraction would be addressed for a tuner?

(6) Standards for generic human interfaces for multiple networks in the home (Ref.6)

The generic human interfaces which are independent from the multiple heterogeneous networks such as Hyperlan, WiHi, ZigBee, Bluetooth, PLC, etc., should be standardized, taking into account the open network delivery of managed services to local networks and devices, as specified by OSGi (Open Services Gateway Initiative).

(7) Mapping application scenarios to interactive receiver's resources (ref.7)

The methods how to describe and classify the application and its content are required to be standardized, for mapping application scenarios to receiver's resources and to identify the required human interfaces.

#### Recommendation 2: Liaisonship

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PACT TG recommends that TC100 should take close liaisonship with the following groups to carry out the new TA activities:

- ISO/TC159
- W3C
- ZigBee Alliance
- OSGi

Recommendation 3: AGS and National Body activities

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In order to realize and support the establishment of the new TA, PACT TG recommends that AGS should encourage the discussion of new technology, in particular, on Network Human Interface (NHI).

National bodies are requested to propose NPs for the issues (1) through (7) in Recommendation 1. PACT TG is requested to propose the actual plan and structure of the new TA including the projects.

#### References

- Ref.1 100/AGS/63 text from (a)
- Ref.2 100/AGS/63 text from a(ii)
- Ref.3 100/AGS/63 text from c(v), d(viii)
- Ref.4 100/AGS/63 text from b(iii)
- Ref.5 100/AGS/63 text from a(i), b(iv), c(vi)
- Ref.6 OSGi specification overview
- Ref.7 ITU-R 6M/162 (Interfaces between an application and the system),  
ITU-R 6M/79 (Content requirements),  
Liaison Group JRG1 between ITU-R/SG6/WP6M + ITU-T/SG9