ISO/IEC JTC 1
Information Technology

Document Type: **New Work Item Proposal**

Document Title: **New Work Item Proposal Home Network Resource Management**

Document Source: **SC 25 Secretariat**

Reference:

Document Status: **This document is circulated to JTC 1 National Bodies for concurrent review. If the JTC 1 Secretariat receives no objections to this proposal by the due date indicated, we will so inform the SC 25 Secretariat**

Action ID: **Act**

Due Date: **2010-04-25**

No. of Pages: **5**

PROPOSAL FOR A NEW WORK ITEM   **Pages 5**

Date of presentation of proposal: 2010-01-24	Proposer: ISO/IEC JTC 1/SC 25 Republic of Korea (KATS)
Secretariat: Germany DIN	**ISO/IEC** JTC 1 N 9964 ISO/IEC JTC 1/SC 25 N 1745

A proposal for a new work item shall be submitted to the secretariat of the Subcommittee of the ISO/IEC joint technical committee concerned with a copy to the Secretariat of ISO/IEC/JTC 1 and the ISO Central Secretariat.

Presentation of the proposal - to be completed by the proposer. Guidelines for proposing and justifying a new work item are given in ISO Guide 26.

Title Home Network Resource Management

Scope This proposed standard specifies the requirements, architecture, and applications for resource management of all types of home networks.

  This proposal includes the requirements, the function of the architecture, the detailed components, interfaces, relations and resource description schemas for management applications.

  Home Network Resource Management - Part 1: Requirements

- Project Scope, Needs, System Requirements, Benefits

  Home Network Resource Management - Part 2: Architecture

- Terminology definition
- Home Resource Management Architecture
- Resource Management Components, Interface and Relations
- [Annex] Resource Description Schemas

  Home Network Resource Management - Part 3: Management Applications

- Fault Management Procedures associated with Part2
- Multimedia Stream Management Procedure associated with Part2

Purpose and justification - The home network resource management standard specifies a high level definition of a common architecture and a base methodology for exposing system configuring and diagnostic processing through the home network model. Resource management of home networks is essential for supporting home networks and growing the home systems market.

Programme of work

If the proposed new work item is approved, which of the following document(s) is (are) expected to be developed?

_____ a single International Standard

___   more than one International Standard (expected number: ....)

__X_ a multi-part International Standard consisting of ....3... parts

_____ an amendment or amendments to the following International Standard(s) ....

_____ a technical report , type ....

And which standard development track is recommended for the approved new work item?

__X_a. Default Timeframe

_____b. Accelerated Timeframe

_____c. Extended Timeframe

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Relevant documents to be considered

ISO/IEC 18012-1:2004, Information technology - Home electronic system - Guidelines for product interoperability - Part 1: Introduction

ISO/IEC 15045-1:2004, Information technology - Home electronic system (HES) gateway - Part 1: A residential gateway model for HES

ISO/IEC 18012-2, Information technology - Home electronic system - Guidelines for product interoperability – Part 2: Taxonomy and lexicon (CD stage JTC1 SC25N1628)

ISO/IEC 15045-2, Information technology - Home Electronic System (HES) gateway – Part 2: Modularity and protocol (CD stage JTC1 SC25N1528)

ISO/IEC 14543-2-1, Information technology - Home Electronic System (HES) architecture - Part 2-1: Introduction and device modularity

Co-operation and liaison

Preparatory work offered with target date(s)

Signature: Dr Walter von Pattay, Secretary of the ISO/IEC JTC 1/SC 25

Will the service of a maintenance agency or registration authority be required? ....No..........
- If yes, have you identified a potential candidate? ....
- If yes, indicate name ....

Are there any known requirements for coding? ....No............
-If yes, please specify on a separate page

Does the proposed standard concern known patented items? ....No...........
- If yes, please provide full information in an annex

Comments and recommendations of the JTC 1/SC 25 Secretariat -
Co-Operation with ITU-T and IEC TC 100 seems to be essential for this project.

Comments with respect to the proposal in general, and recommendations thereon:
It is proposed to assign this new item to JTC 1/SC 25. Project number: 1.25.01.20

Voting on the proposal - Each P-member of the ISO/IEC joint technical committee has an obligation to vote within the time limits laid down. **Please use the ISO electronic balloting portal to provide your vote.**

Date of circulation: 2010-01-24	Closing date for voting: 2010-04-25	Signature of Secretary: Dr. Walter P. von Pattay

NEW WORK ITEM PROPOSAL - PROJECT ACCEPTANCE CRITERIA		
Criterion	**Validity**	**Explanation**
A. Business Requirement		
A.1 Market Requirement	Essential _x_ Desirable ___ Supportive ___	Home network is a complex environment that consists of several kinds of device and network technologies. Although many standards specify home network communications and operations, there is a lack of management, configuration, and diagnosis tools for home networks that can be used easily by customers. A high level definition of a common architecture and a base methodology for exposing system configuring and diagnostic processing is required in home networks.
A.2 Regulatory Context	Essential ___ Desirable ___ Supportive ___ Not Relevant _X	
B. Related Work		
B.1 Completion/Maintenance of current standards	Yes ___ No_X_	
B.2 Commitment to other organisation	Yes ___ No_X_	
B.3 Other Source of standards	Yes ___ No_X_	
C. Technical Status		
C.1 Mature Technology	Yes ___ No_X_	
C.2 Prospective Technology	Yes ___ No_X_	
C.3 Models/Tools	Yes ___ No_X_	

D. Conformity Assessment and Interoperability		
D.1 Conformity Assessment	Yes ___ No_X_	
D.2 Interoperability	Yes _X_ No___	This standard specifies a high level resource description and a base methodology for home network entities. These descriptions should be interoperable among different vendors.
E. Adaptability to Culture, Language, Human Functioning and Context of Use		
E.1 Cultural and Linguistic Adaptability	Yes_____ No__X__	
E.2 Adaptability to Human Functioning and Context of Use	Yes_____ No__X__	
F. Other Justification		

Notes to Proforma

A. Business Relevance. That which identifies market place relevance in terms of what problem is being solved and or need being addressed.

A.1 Market Requirement. When submitting a NP, the proposer shall identify the nature of the Market Requirement, assessing the extent to which it is essential, desirable or merely supportive of some other project.

A.2 Technical Regulation. If a Regulatory requirement is deemed to exist - e.g. for an area of public concern e.g. Information Security, Data protection, potentially leading to regulatory/public interest action based on the use of this voluntary international standard - the proposer shall identify this here.

B. Related Work. Aspects of the relationship of this NP to other areas of standardisation work shall be identified in this section.

B.1 Competition/Maintenance. If this NP is concerned with completing or maintaining existing standards, those concerned shall be identified here.

B.2 External Commitment. Groups, bodies, or fora external to JTC 1 to which a commitment has been made by JTC for Co-operation and or collaboration on this NP shall be identified here.

B.3 External Std/Specification. If other activities creating standards or specifications in this topic area are known to exist or be planned, and which might be available to JTC 1 as PAS, they shall be identified here.

C. Technical Status. The proposer shall indicate here an assessment of the extent to which the proposed standard is supported by current technology.

C.1 Mature Technology. Indicate here the extent to which the technology is reasonably stable and ripe for standardisation.

C.2 Prospective Technology. If the NP is anticipatory in nature based on expected or forecasted need, this shall be indicated here.

C.3 Models/Tools. If the NP relates to the creation of supportive reference models or tools, this shall be indicated here.

D. Conformity Assessment and Interoperability

D.1 Indicate here if Conformity Assessment is relevant to your project. If so, indicate how it is addressed in your project plan.

D.2 Indicate here if Interoperability is relevant to your project. If so, indicate how it is addressed in your project plan

E. **Adaptability to Culture, Language, Human Functioning and Context of Use**

NOTE: The following criteria do not mandate any feature for adaptability to culture, language, human functioning or context of use. The following criteria require that if any features are provided for adapting to culture, language, human functioning or context of use by the new Work Item proposal, then the proposer is required to identify these features.

E.1 Cultural and Linguistic Adaptability. Indicate here if cultural and natural language adaptability is applicable to your project. If so, indicate how it is addressed in your project plan.

ISO/IEC TR 19764 (Guidelines, methodology, and reference criteria for cultural and linguistic adaptability in information technology products) now defines it in a simplified way:

"ability for a product, while keeping its portability and interoperability properties, to:

- be internationalized, that is, be adapted to the special characteristics of natural languages and the commonly accepted rules for their se, or of cultures in a given geographical region;

- take into account the usual needs of any category of users, with the exception of specific needs related to physical constraints"

Examples of characteristics of natural languages are: national characters and associated elements (such as hyphens, dashes, and punctuation marks), writing systems, correct transformation of characters, dates and measures, sorting and searching rules, coding of national entities (such as country and currency codes), presentation of telephone numbers and keyboard layouts. Related terms are localization, jurisdiction and multilingualism.

E.2 Adaptability to Human Functioning and Context of Use. Indicate here whether the proposed standard takes into account diverse human functioning and diverse contexts of use. If so, indicate how it is addressed in your project plan.

NOTE:

1. Human functioning is defined by the World Health Organization at
    http://www3.who.int/icf/beginners/bg.pdf as:
    <<In ICF (*International Classification of Functioning, Disability and Health), the term functioning refers to all body functions, activities and participation.*>>

2. Content of use is defined in ISO 9241-11:1998 (*Ergonomic requirements for office work with visual display terminals (VDTs) – Part 11: Guidance on usability) as:*
    <<*Users, tasks, equipment (hardware, software and materials), and the physical and societal environments in which a product is used.*>>

3. Guidance for Standard Developers to address the needs of older persons and persons with disabilities).

F. Other Justification   Any other aspects of background information justifying this NP shall be indicated here