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WG1 (Edinburgh, Schoechle) 1
September 30, 2005

ISO/IEC JTC1/SC25: Interconnection of Information Technology Equipment
Working Group 1: Home Electronic System (HES)

TITLE: Confirmed minutes: forty-first meeting held in Brussels, Belgium, March 14-18, 2005

SUMMARY:

The 41st meeting of the international standards committee on Home Electronic System (WG1) was held during the week of March 14, 2005 in Brussels, Belgium. Administrative matters, liaison reports, and discussion of the key projects of WG1 occupied the 1st day. The 2nd, 3rd, and 4th days were devoted to the introduction of various technical papers, activity reports, site visits, and discussion of various detailed organizational and technical issues. The 5th and final day was devoted to completion of technical discussions, wrap up, preparation of action items and resolutions, scheduling and the preparation of new work items.

ATTENDEES:

<u>Name</u>	<u>Country</u>	<u>Affiliation</u>
R. Bothe	Belgium	Niko, BEC
J. Demarest (Th)	Belgium	Konnex Association
M. Goossens (M, Th)	Belgium	Konnex Association
T. Schoechle (Secretary)	Canada	Consultant/ICSR/SCC
J. Huang (M, Tu)	China	Lenovo
D. Wu	China	China Electronics Standardization Institute (CESI)
J. Mørup	Denmark	Belden CDT Europe
L. Baranger	France	FFIE (French electrical installers)
P. Calvet (M, Tu)	France	France Télécom
D. Roche (W, Th, F)	France	France Télécom
D. Beck (W, Th, F)	France	Hager Electro, CENELEC TC205
A. Kinne	Germany	Siemens, AG
H. Langels (W, Th, F)	Germany	Siemens, AG
W. Pattay	SC25 Secretary	ZVEI
J. Tretter (Th)	Germany	GFI, CENELEC TC205
P. Mongiovi (M, Tu, W, Th, F)	Italy	CEI
H. Chen (Tu, W, Th)	Japan	Panasonic Taiwan Laboratories.
Y. Shintani	Japan	Panasonic
K. Yamamoto	Japan	Matsushita Electric Works
K. Choi	Korea	Korea Electronics Technology Institute (KETI)
K. Jung	Korea	Korea Electronics Technology Institute (KETI)
G. Nilsson	Sweden	Schneider Electric
P. Colebrook (M, Th, F)	UK	British Standards Institution (BSI)
D. Kaleshi (M, Tu)	UK	Bristol University
A. Munro (Th, F)	UK	Bristol University
S. Pattenden (M, Tu, W)	UK	British Standards Institution (BSI)
R. Ambrosio (M, Tu)	USA	IBM Watson Research Center
A. Chen	USA	Avinta Communications, Inc.
S. Ungar	USA	Telcordia Technologies
K. Wacks	WG1 Convener	TIA/Home and Building Systems Consultant/MIT

PROCEEDINGS: [Note that numbering corresponds to agenda items and may not follow in numerical order.]

Monday, March 14, 10:00 am.

1. Opening of the Meeting.

The Convener, Dr. Ken Wacks welcomed the WG1 participants to Brussels, and he expressed his appreciation to Mr. Robert Bothe, of Niko and the Belgian Electrotechnical Committee, and to CENELEC for the meeting arrangements. Mr. Bothe welcomed those attending the meeting and extended an invitation to attend a special dinner for all participants on Thursday evening to be hosted by the Konnex Association. He also invited the participants to attend a cultural tour of Brussels on Tuesday afternoon and a site visit to the *Living Tomorrow* facility on Wednesday afternoon, both provided courtesy of Niko. The Convener then asked the participants to introduce themselves individually.

2. Review and approval of agenda

A proposed agenda for the meeting was reviewed, amended and adopted.

2.1 Update of membership/ mailing list

The Membership roster and WG1 reflector lists were presented. The Secretary requested that each participant review the roster and reflector lists and update any information on it, with special attention to the e-mail address, if one exists. The Secretary reported that the minutes and the agenda had been distributed by email.

2.2 Review of document register and assignment of new contributions

Various new contributions and a proposed document register were reviewed and items were assigned to the agenda, document N1133a *Proposed Agenda of Meeting (Brussels, March 2005)*.

2.3 Review of working procedures

The Convener then reviewed the working procedures for the meeting. He asked the participants to take note that in the future, anyone that submits a contribution seeking WG1 action should follow-up within two weeks by contacting the secretary.

3. Approval of unconfirmed minutes of the previous meeting

3.1 Review of previous meeting's minutes

The Convener reviewed document N1123 *Unconfirmed Minutes: 40th meeting held in Chitose*, the unconfirmed minutes of the previous meeting which included the resulting action items, (WG1/N1121a). No corrections were proposed and the minutes were confirmed by consensus of the meeting.

3.2 Review of previous meeting's action items

The Convener reviewed document N1121a *Action Items for WG1 from the Chitose Meeting*. The Convener then called the attention of the meeting to the program of work. He emphasized that the most important goal of this meeting was to make progress on three specific projects that had active draft documents ready for work: Roadmap WD (N1134a), Interoperability Part 2 WD

(N1114), Residential Gateway Part 2 CD (N1127), Security CD (N1135, 36 & 37), and Telephony DTR (N1142).

4. Liaison Reports

The Convener called the attention of the meeting to the topic of liaison reports.

4.1 IEC TC100—Audio/Video

It was reported that the Echonet self diagnostics interface was circulating as a CD.

4.2 JTC1 SC25/WG3—Premises Wiring

Pattay reported ISO/IEC 15018 was published and that with the SOHO work completed, the SOHO group had been disbanded. It was also noted that a NWIP had been submitted for including fiber. It was the consensus of the meeting that a liaison with WG3 should be established so that WG1 would be informed of any proposed changes to 15018. Von Pattay stated that Convener and Secretary of WG1 are informed of document on SC25 server and are available for distribution to WG1. The WG1 convener undertook to add this item to the WG1 POW and to establish a new reflector list, and he requested that the WG1 Secretary notify the SC25 Secretary of the liaison request. Ungar volunteered to serve as liaison officer.

4.3 CENELEC TC205 WG5—Residential Gateway

No report was available. It was noted that the Chairman of TC205 planned to attend later in the meeting and give a presentation on the work of CENELEC TC205.

4.4 IEC TC79—Alarm Systems

No report was available.

4.5 ITU-T Study Group IX—Video Distribution

No report was available.

4.6 ITU-T Study Group XV Q4—DSL

No report was available.

4.7 ISO TC205 WG3—Building Automation & Protocols

The Convener presented document N1147 *Liaison Report from ISO TC205/WG3* that had been provided by Bushby.

4.8 JTC1 SC27—Information Tech Security Techniques

No report was available.

4.9 JTC1—Information Technology

No report was available.

4.10 JTC1 SC36—Information Technology for Learning, Education and Training

No report was available.

4.11 SC32/WG 2— Data Management and Interchange: Metadata

No report was available.

4.12 JTC1/SC22 WG11—Abstract Data Types.

No report was available.

4.13 JTC1/SC25—Interconnection of Information Technology Equipment

Von Pattay noted that documents N990A and N991 issue by Chitose Plenary.

4.14 CENELEC TC205 WG16—Monitor single residential environment in Europe: Konnex

It was noted that a detailed presentation would be made by the Konnex Association later in the meeting.

4.15 NCITS V2—IT Access Networks

No report was available. The Convener noted that current work in V2 was dealing with user interface issues that may of interest to the Interoperability project.

4.16 EIA/CEA R-7.4—Versatile Home Network

Wacks reported that the Consumer Electronics Association (CEA) R7 committee had adopted a revision of the VHN standard that had been prepared by the 1394 Trade Association. He noted that WG1 had forwarded a new draft CD, WG1/N1140a *Broadband Home Network* (20587), based on this new standard, as part of the HES Reference Implementation project. He noted that the document would be formally introduced later in the meeting. He then further reviewed the organization of the R7 committee and its working groups.

4.17 IEC TC59—Household Appliances

No report was available.

4.18 IEC TC86—Fiber Optics

No report was available.

4.19 IEC TC61—Safety of Household Electrical Appliances

No report was available.

4.20 DSL Forum—Digital Subscriber Line

Wacks reported that a formal liaison had been established with the DSL Forum and that documents had been exchanged following the Yorktown meeting, but that no further contact had occurred since the Chitose meeting. He noted that the DSL Forum appeared to have completed a specification for a home networking architecture. He further noted his brief conversation with Jeff Multach of SBC who had called attention to certain relevant “learning” papers on the Forum website <www.dslforum.org>.

5 Activity Reports

The convener deferred activity reports until later in the meeting.

6. Review and discussion of the HES work program

The Convener then asked the meeting to focus on certain specific items in the program of work in order to make the best progress in the limited time available and make the best use of the available experts. In particular he asked the meeting to focus on the Roadmap (N1134a), the HES interoperability project (18012), the residential gateway project (15045), and the home network security project (20587). He noted that a number of comments, contributions, and proposals had been submitted that were related to these projects and need to be covered.

6.1 Discussion of *HES Introduction*

No new contributions were presented and no discussion was conducted.

6.2 Discussion of *HES Introduction*

No new contributions were presented and no discussion was conducted.

6.3 Discussion of *HES Architecture (01.04.01: 14543-1, -2, -3, -4)*

Schoechle introduced document N1134a *The WG1 "Roadmap", 2005 Edition* that described the history of WG1 including a definition of HES, as well as the group's mission, vision, and plans for future work. Schoechle noted that there needed to be final agreement on wording regarding future work and specifically on the standardization of lower layer profiles *vs.* restricting work to application layer and above (*i.e.*, interoperability, gateway, and services). A discussion then proceeded. Colebrook emphasized the need to focus the limited time of WG1 experts on interoperability, the gateway, and safety. Kinne noted that there was also a need to recognize systems that were already significant realities in the marketplace. Ambrosio commented that WG1 is dealing with *heterogeneity*, and standardizing each protocol would conflict with its interoperability work. Pattenden noted that WG1 is at the interface between networks—"not at Konnex or Echonet—but between both." Goossens noted that WG1 should "keep an eye on the [various] protocols," but not [have] a "basement full of gateways." The discussion continued but there was no consensus on the final wording for the *Roadmap*.

Schoechle proposed that standardization of lower layer protocols and systems might be accommodated by the use of "Standardized Profiles" as defined by the *JTC1 Directives*. He noted that this would allow the work to proceed under the umbrella of interoperability, without having the group become immersed in the details of standardizing numerous regional and consortia systems. The discussion then focused on how such profiles might provide the definitions of the generic interworking functions (GIWFs) needed as part of the Common Interoperability System (CIS) being standardized in the interoperability project. Kaleshi noted that the GIWF "has two faces...in and out," and he suggested that a common framework could be established by which each protocol could provide, through standardized profiles, its own set of needed elements (*e.g.*, lexicon, taxonomy, methods, syntax, *etc.*) to the CIS. Further discussion of the topic was then deferred until later in the meeting.

The topic of *HES Architecture* was further discussed. The convener noted that the series of technical reports (type 2), including various application models, were nearing five years old and needed to be reaffirmed. After discussion, it was the consensus of the meeting that the technical reports TR 14543-1, -2, -3, and -4, be reaffirmed for another five years.

6.4 Discussion of *HES Application Services and Protocol (01.04.02-01: 15067-1)*

No new contributions were presented. The topic of N1073 *HES Application Model and Services CD 15067-1* (DCTP) was then discussed. It was noted that although the CD had been returned with comments to resolve, Farance, the project editor, was no longer able to participate in the work. It was further noted that the convener had been notified that the IEC Central Office had scheduled the project for automatic termination if no further work was done by June. After discussion, it was the consensus of the meeting to terminate the project, noting that the project could be revived at a later date if there was sufficient interest.

6.5 Discussion of *HES Network Layer and Transport Layer Protocol*

No new contributions were presented and no discussion was conducted.

6.6 Discussion of *HES Process Interfaces (01.05.xx: 10192-x)*

No new contributions were presented and no discussion was conducted.

6.7 Discussion of *Residential Gateway (01.03.02: 15045-1, -2)*

The convener deferred the discussion until later in the meeting.

6.8 Discussion of *HES Interoperability (01.07.01: 18012-1)*

Discussion of HES Interoperability was deferred until later in the meeting.

6.9 Discussion of *HES Reference Implementation—Broadband Home Network (EIA 851) (01.09: 20587)*

Wacks introduced document N1140a *Broadband Home Network (draft 2nd CD 20587)*, providing slides to explain the network architecture described in the document. Wacks noted that the document had recently been adopted by the CEA R7 committee on Home Networks as an American National Standard. He proposed that it be adopted by WG1 and circulated as a 2nd CD. Colebrook presented document N1148 UK Comments on Broadband Home Network. He explained that he had significant concerns including, 1) the R7 document and the residential gateway both describe an architecture that is extremely similar and could compete for the same space, 2) the R7 document is A/V centric, and specifies the IEEE-1394 protocol, creating a significant market limitation, while the gateway specifies Ethernet, and 3) the R7 document specifies UPnP, a protocol with significant potential intellectual property problems as well as also having possible technical limitations for gateway purposes. It was noted that Ungar had participated in details of both projects and could possibly help in harmonizing them. Ungar undertook to further investigate the issues involved. After discussion, it was the consensus of the committee that advancing the document should be delayed pending a report on these issues from Ungar and Wacks.

Shintani introduced documents N1135 *Home Network Security-Pt I: Security Requirements*, N1136 *Home Network Security-Pt II: Internal Security Service*, and N1137 *Home Network Security-Pt III: External Security Service*. The convener assigned discussion of these documents to the Security Working Party.

Ungar introduced documents N1142 *Telephony Services for Home Network Rev 2, DTR Type 2*, and N1141 *Liaison Report from ITU-T SG 16*. He commented that the Telephony Services document had proposed SIP (Session Initiation Protocol, and IETF set of standards) as a basis for home VoIP implementation. He noted that the ITU-T, as indicated in the Liaison Report,

avored its own protocol, H.323, and thus had finally opposed the Telephony Services document, in spite of earlier indications that it would support the document with certain modifications. He further noted that the difference between the two protocols was fundamental, with the telephone operators favoring network-centric solutions and the IETF favoring end-to-end solutions. Ungar further noted that H.323 is a “traditional telephone system oriented protocol,” and that it needs a lot of processing that is usually centralized. SIP, on the other hand, he continued, is an IETF protocol that is much more decentralized. The processing is done at the edge of the network. Ungar agreed to prepare a contribution explaining the rationale of SIP over H-323 in the proposed Telephony TR.

Schoechle commented that it was important to move this document forward because the VoIP industry was advancing very rapidly in the marketplace, was almost entirely employing SIP, and would become a vital element of HES. The convener then assigned further discussion of these documents to the Telephony Working Party.

6.8 Discussion of *HES Interoperability (01.07.01: 18012-1)*

The meeting then began the discussion of HES Interoperability that had been deferred earlier in the meeting. Ambrosio introduced document N1128 *Guidelines for Product Interoperability, part 2: Taxonomy and Lexicon*, offering the proviso that the document was still being edited and might be available for discussion tomorrow. He offered certain diagrams showing how objects would integrate within the proposed common interoperability system, how markup languages, such as XML (Extended Markup Language) and UML (Universal Markup Language), might be employed, and how a publish/subscribe event-passing model might use object proxies inside the interoperability domain. He noted that the latest available version of the document was N1114, but he undertook to have the new completely revised version available soon, including the new diagrams.

Kaleshi then continued by describing how the taxonomy provided a structure of objects for the interoperability system, and how the lexicon served to enrich the object definitions. Ambrosio noted that there was a need to re-cast the application models (TRs) in terms of this interoperability system. Kaleshi then described three directions to be taken: 1) incorporate the interactive models described by Ambrosio, elaborate the taxonomy structure and lexicon structure (including object definitions) to create a one-to-one mapping to existing systems, and 3) establish a structure for application profiles defining the object structures needed to build schemas (using XML or UML). Ambrosio undertook to structure the interoperability project to accommodate standardized profiles, and to make a suitable structure or template available before the upcoming CENELEC meeting of May 3.

5. Activity Reports (continued)

The Convener returned the meeting to the topic of activity reports.

Pattenden introduced document N1138 *TAHI Open Architecture*. He noted that this architecture represents what the CENELEC Smarthouse project will embody, known as the *Smarthouse Code of Practice*. He further described the structure of the project, including the ITC steering board, known as the Smarthouse Standardization Steering Group (SHSSG).

Ungar reported on the recent Consumer Electronics Show (CES) held in Las Vegas by the Consumer Electronics Association (CEA), and on the co-located IEEE Consumer Communications and Networking Conference (CCNC). He noted that several PLC systems were

introduced at these events, largely applied to demonstrations of HDTV over powerline carrier. He observed that many large companies were advertising “home networks” to move TV pictures from one room to another and that they will try to “lock-in” their technologies. He interpreted this to mean that if WG1 does not move forward in a timely way with interoperability, the market may fragment.

Wacks reported on PlaceLab at MIT. He reported that PlaceLab is an apartment that combines an actual living environment for volunteer occupants with a research laboratory to create a “living laboratory.” He added that installed in PlaceLab are hundreds of sensors to allow researchers the ability to study nearly every aspect of life in the home, including what people are doing and the environmental conditions inside. He concluded by noting that PlaceLab applications include preventative and proactive health care, user interface design, energy conservation, indoor air quality, and wearable systems.

A. Chen reported on HomePNA, providing an overview of version 3, describing a method of transmitting Ethernet frames over phone lines, using a single station modulated carrier technique.

The Convener adjourned the meeting at 6:00 p.m. until the next day at 9:00 am.

Tuesday, March 15, 9:00 am.

The Convener opened the meeting, returning to the topic of activity reports.

Wu presented a set of slides, document N1144 *Information Technology Standardization in China*, providing an overview of the standardization system in China for information technology. She described the functions and the relative roles of the China Electronics Standardization Institute (CESI), the National IT Standardization Technical Committee (NITSTC), the 24 special standards working groups of the Ministry of Information Industries (MII), and the Standardization Administration of China (SAC).

Huang then presented a set of slides, document N1145 *IGRS Introduction*, describing the Intelligent Grouping and Resource Sharing (IGRS) organization for standardizing home systems in China. He noted that the IGRS system was roughly similar to UPnP, except that it included both peer-to-peer protocols and master-slave protocols, and that it went beyond IP networks (e.g., Bluetooth). He further noted that IGRS version 1.0 was due to be approved this month.

Pattenden then presented a set of slides, document N1146 *Smarthouse II—Overview*, dealing with phase II of the Smarthouse project managed by CENELEC under TC205 WG16 as a CENELEC Workshop Agreement. He described the development of a Code of Practice (CoP) for the European Smarthouse under CENELEC, an action supported by EU/EFTA and coordinated with the *e-Europe 2005* initiative. He noted that the CoP final report was due to be published by August 19, 2005.

Pattay then discussed his planning activity for a home networking workshop to be held October 13-14 in Geneva, under the sponsorship of several study groups of the ITU-T. Yamamoto commented that the ITU-T study groups deal with public networks, and that SC25/WG1 deals with private networks—further noting that home networks should logically fall in the latter category. Patty responded that ITU-T was nevertheless responsible for the end-to-end capabilities and therefore, undertaking such work, and that this workshop would be an opportunity to make ITU-T study groups aware of work underway in SC25. He then added that

he would make aware to WG1 participants the planned program and any call for papers for the workshop.

Ambrosio called attention to the upcoming *MobiSys 2005*, the Third International Conference on Mobile Systems, Applications, and Services to be held June 6-8 in Seattle, and co-sponsored by the Association for Computing Machinery (ACM). He noted that this conference deals with end-to-end sense-and systems, applications, and services—topics relevant to interoperability.

Ambrosio also reported on the *GridWise Alliance*, a consortium of public and private stakeholders who have joined together in a collaborative effort to provide real-world technology solutions to support the U.S. Department of Energy's vision of a transformed national electric system. He noted that the intention of the project was to develop an electric system that will employ new distributed “plug and play” technologies using advanced telecommunications, information, and control approaches to create a society of devices that functions as an integrated transactive system (see www.gridwise.org for information and terminology). He further noted that this work was also relevant to the Interoperability project.

8. Working Party meetings

The convener then divided the meeting into special working parties on Telephony, Security, and Interoperability for the remainder of the morning session and much of the afternoon.

The convener adjourned the meeting at 4:15 p.m. until the next day at 9:00 am. He invited the attendees to participate in the cultural tour of Brussels for the remainder of the afternoon, to be hosted by Niko.

Wednesday, March 16, 9:20 am.

6.8 Discussion of *HES Interoperability* (continued)

The convener resumed the meeting with a report of the working party on interoperability. Kaleshi reported on the working party discussions that had proceeded the previous day. He announced that due to urgent family matters, Ambrosio had found it necessary to leave the meeting immediately and return home, and that he had been unable complete editing of document N1128 *Interoperability, Part 2: WD (revision of N1114)* prior to his departure. As a result, he noted, document N1114 remained the latest version, but it was hoped that editing could be completed within the week. He then described the planned changes to the document: 1) section 6: interaction model, 2) section 7: schema, 3) section 8: interoperability procedures (mechanisms and processes by which the registry will be enriched).

Kaleshi concluded by affirming that the intention was to complete and distribute a WD to comment on for the September meeting of WG1, so that a CD could be circulated and comments could be reviewed at the winter 2006 meeting. Schoechle observed that the Residential Gateway work would soon be waiting on the Interoperability work. The convener asked if there was any way to accelerate the Interoperability work. Pattenden noted that additional funding for Kaleshi might be available by September. No other suggestions were offered.

6.6 Discussion of *HomeGate—Residential Gateway* (continued)

Schoechle, acting as project editor, introduced two documents: 1) 25N1020c (balloted form of WG1/N1127) *Residential Gateway, Part 2: Modularity & Protocol CD*, and 2) document 25N1039 *Collation of Comments: Residential Gateway, Part 2: Modularity & Protocol CD*. He

noted that the CD ballot had passed, having been approved by 13 P-member bodies and opposed by only 3. He then proceeded to prepare a *Resolution of Comments* document by reviewing each comment and drafting proposed responses, soliciting suggestions from the meeting participants. When this discussion was completed, it was the consensus of the meeting that all of the comments had been satisfactorily resolved. Munro added that he was preparing additional editorial comments and would provide them to the project editor in the near future. Schoechele undertook to revise the document and re-issue it as a draft FCD for discussion at the September meeting. He thanked the participants for assisting in resolving the comments.

6.9 Discussion of *HES Reference Implementation—Broadband Home Network* (continued)

The convener then returned the meeting to the discussion of the Broadband Home Network. Pattay, speaking as SC25 Secretary, stated that the project had expired and been cancelled, and that a NWIP was needed to resume the project. The convener observed that the work had been ongoing, and although it had been waiting on this new draft from CEA (WG1 N1140a), significant progress had been made. He asked the SC25 Secretary to assist in convincing the IEC Central Office to restore the project and avoid needless paperwork, risk, and administrative delay.

Document N1140a was then further discussed. Baranger expressed concern about security issues, and on the dependence of the document on UPnP and possible associated Microsoft intellectual property rights. Langels commented that UPnP was initiated in 1999 with version 1, and that version 2 was not yet standardized. He further noted that UPnP was designed as an internal network where security was not an issue, and that it was not clear how it would deal with outside/access networking security issues.

Pattenden presented document N1148 *Comments on Broadband Home Network*, conveying comments from the U.K. National Committee. He noted that the document identified certain potential problems that needed to be addressed, including, 1) UPnP related intellectual property issues, 2) the use of IEEE 1394 vs. Ethernet, and 3) inconsistencies (including terminology) and overlap with the Residential Gateway work, due to similarities in their architecture. Ungar undertook to pursue these issues.

The convener then proposed to form a new working party and list server on physical layer (*e.g.*, media, cabling, connector, *etc.*) issues, and he called for volunteers to participate. Ungar undertook to serve as chair and to act as liaison to WG3 on issues that may be relevant to WG1.

The convener then returned the meeting to a discussion of HES security. Ungar and Shintani reported on the working party discussions that had proceeded the previous day. They noted that an important issue was the key-setting mode (*i.e.*, establishing secret keys). Ungar noted that although the focus of the meeting was presently on specific proposed details, and progress was being made, there was still a need to address the entire issue of home system security on a higher, more comprehensive level. The convener then invited suggestions and/or proposals for such an approach.

10 Administrative

The convener then turned the meeting to the topic of working group administration. A. Chen, as acting U.S. Head of Delegation, and on behalf of the TIA as secretariat of WG1, proposed that Dr. Wacks, as the nominee of the TIA, be re-affirmed as convener of WG1 for another term. It was the consensus of the meeting to so re-affirm the convener.

Due to various scheduled events to occupy the remainder of the day, including a site visit to the *Living Tomorrow* facility, the Convener adjourned the meeting at 2:30 p.m. until the next day at 9:00 am.

Thursday, March 17, 9:15 am.

5. Activity Reports (continued)

The Convener introduced two special guests, Mr. Dominique Beck, Chairman, and Mr. Jürgen Tretter, Secretary, of CENELEC TC205. He then returned the meeting to the topic of activity reports.

Demarest, representing the Konnex Association, then presented a set of slides, document N1152 *Konnex Association*. He recounted the history of the Konnex association, formed in 1999—a merger begun in 1997 of three earlier initiatives: Batibus, EIB (European Installation Bus), and EHS (European Home Systems). He noted that the Association constituted a pool of intellectual property in which member organizations signed a license agreement specifying which of their patents they would license to the pool. He noted that this pool was internal to Konnex at the present time. Demarest then stated that the license conditions given in the corresponding standards would be in alignment with CENELEC IPR policies as stated in CENELEC Guide 8, which, he added, is based on ISO/IEC Directives, Part 2.

Goosens, also representing the Konnex Association, then presented a set of slides, document N1151 *Konnex Presentation: the KNX system in a nutshell*, describing the Konnex technology in detail. Following his presentation, he invited the attendees to visit the exhibits that had been set up outside the meeting room providing equipment demonstrations and relevant technical literature, during the coffee break. He noted that these exhibits represented real products sold to real customers in real volumes based on an industry-wide interoperability model. He further noted that, although focused on control applications, the Konnex products are complementary to the diversity of products and systems to be encompassed by the residential gateway.

Some attendees asked the convener to clarify the JTC1 policy regarding IPR and if patented systems or technologies could be included in ISO/IEC standards. The convener stated that JTC1 used a conventional “RAND” policy (*i.e.*, Reasonable And Non-Discriminatory license), but he did not believe that any such statement was needed if such material was merely “referenced” to an existing standard. Colebrook commented that it was his understanding that if such IPR were “essential” to the standard, there would be a need to do so. The convener asked Colebrook to research the question, possibly referring to the *JTC1 Directives*, and other sources.

Beck, representing CENELEC TC205, then presented a set of slides, document N1150 *CENELEC Presentation*. He recounted the history of CENELEC (Comité Européen de Normalisation Electrotechnique), formed in 1973 and composed of the National Electrotechnical Committees of 28 European countries and 8 affiliate countries from Eastern Europe and the Balkans. He noted that its mission was to establish voluntary electrotechnical standards, including both standards requested by the market and harmonized standards in support of European legislation, which have helped to shape the European Internal Market. He further noted that the latter category includes the “new approach” using standards to serve as regulatory reference, and that CENELEC technical committees usually mirror IEC committees, utilizing the same numbering system. He also called attention to the “Dresden Agreement” that provides for moving CENELEC standards directly into IEC standards through a ballot process, as an alternative to the usual technical committee procedure.

Beck then described the scope of CENELEC TC205 as home and building electronic systems in reference to the information society. He identified it as the home of the Smarthouse project, and highlighted a strong interest in such topics as functional safety and conformity assessment. He then described the TC205 program of work and identified the relative position of work items that were both planned and completed. Among these were a number of standards related to the Konnex system including the EN 50090 *Open Communication System* series (e.g., draft EN 50090-6-4 *Residential Gateway*). He suggested that WG1 initiate a NWIP, he proposed that some of these standards be incorporated into the WG1 work program and standardized as part of HES. He presented slides, WG1-N1150 *CENELEC Presentation*, showing relevant parts to EN50090, including EN50090-3-2 User Layer, EN50090-7-1 Management, and EN50090-5-x Physical Layers).

The meeting then proceeded to an open discussion of the proposed NWIP for incorporating Konnex/CENELEC standards into HES. Comments favoring the NWIP emphasized that Konnex was a “real world” system already a market reality, and that standardizing it could both benefit the Konnex industry and enhance the reputation (*i.e.*, market relevance) of WG1. Comments adverse to the NWIP were 1) Konnex is limited to control systems and HES is much broader, 2) many other regional or specialized protocols and systems would soon be knocking at the door, 3) WG1 needed to stay focused on interoperability, on the gateway, and on interconnecting systems rather than on a particular system. After considerable discussion, with each national body contributing, there was little support from WG1 to authorize NWIPs that would bring the CENELEC work directly into WG1. However there was a consensus that the CENELEC standards, in some form, could contribute significantly to the Interoperability work. Finally, it was the consensus of the meeting to invite Konnex and others (e.g., Echonet, KETI, *etc.*) to propose profiles to the Interoperability project rather than to propose entirely new work. Beck suggested that TC205 could contribute work to advance this project. Schoechle undertook to notify the Interoperability project editor to accommodate such profiles by providing some form of template.

The convener adjourned the meeting at 5:00 p.m. until the next day at 9:00 am, and he invited the attendees to attend the special dinner to be hosted by the Konnex Association at 7:00 pm.

Friday, March 18, 9:00 am.

10. Administrative

10.1 Update status of Work Program (Goals and Mission)

The Convener then formed a working party to update the work program. Schoechle reported that final wording for the *Roadmap* had been agreed on, and he presented the new proposed wording to the meeting. It was the consensus of the meeting to adopt the final wording and to re-issue the document.

10.2 Electronic document Distribution

The Convener called the attention of the meeting participants to the new WG1 website at <www.hes-standards.org>.

10.3 Liaisons

No further proposed liaisons were presented and adopted by the meeting.

10.4 Resolutions

No further proposed resolutions were presented and adopted by the meeting. The Convener then appointed a drafting committee to prepare formal resolutions for the SC25 Plenary meeting.

11. Outreach and Promotion

No further new business was proposed.

12. New Issues and Business

No further new business was proposed.

13. Review of Action Items, Assignments, and Schedule for next meeting

Action items from the meeting were compiled into document N1149 *Action Items for WG1 from the Brussels Meeting* and distributed it to the attendees present.

The subject of the next meeting was then discussed. The Convener noted that the next plenary of SC25 may be scheduled for September 26-30, 2005, in Edinburgh, U.K. A tentative invitation was extended by a representative of CESI to host the next interim (winter) meeting of WG1 in Beijing, during February or March of 2006.

14. Closing of the meeting

The Convener thanked Mr. Robert Bothe of Niko and CENELEC for the meeting arrangements and for the excellent networking facilities and administrative support. He especially thanked the Konnex Association for their gracious hospitality and for the excellent dinner for all the attendees on Thursday evening. He also thanked Niko for the enjoyable cultural tour of Brussels and for the interesting site visit to the *Living Tomorrow* facility. The Convener then thanked the members for their hard work and requested all members to get their work done by the due dates, else to notify the secretary by the due date, preferably by e-mail. He further requested that the members remind those not in attendance of the importance and timeliness of the WG1's work and encourage them to focus on coming to meetings and making contributions. The Convener then adjourned the meeting at 12:05 p.m.

UPCOMING MEETING SCHEDULE:

WG1/SC25	September 26-30, 2005	Edinburgh, UK
WG1	February/March, 2006	Beijing, China*

* invitation pending, date subject to change

**WG1 N1149**

***ACTION ITEMS FOR WG1 FROM THE Brussels MEETING
18 March 2005***

1. **Ungar** will establish liaison with WG3 on structured cabling and changes to 15018, and communicate with WG1 members via new cabling reflector.
2. **Schoechle** will edit and re-issue "Roadmap".
3. **Schoechle** will edit RG CD and re-issue for September meeting as FCD.
4. **Ambrosio** will structure interoperability to accommodate profiles, available before CENELEC meeting of May 3.
5. **Schoechle** will notify SC25 of re-affirmation of 14543-1, -2, -3, and -4.
6. **Pattay** will provide CFP for Workshop of October 13-14, 2005 (Geneva).
7. **Ungar** will issue contribution explaining rationale of SIP over H-323 in Telephony TR.
8. **Ungar** will investigate issues in Broadband Home Network: 1) Ethernet/1394, 2) UPnP, 3) harmonization with RG.
9. **Schoechle** will notify SC25 Secretary to terminate DCTP CD (15067-1: WG1/N1073).
10. **Shintani** will edit and re-issue Security CD draft to WP by mid-April, ask for input from SC27 by mid-May, for circulation as CD by mid-June.
11. **Pattay** will ask the host to propose a less expensive hotel for Edinburgh meeting (September 26-30).
12. **Wacks, Schoechle, and Wu** will identify a date for the winter 2005-2006 meeting (February/March 2006) by March 31.