

ISO/IEC JTC 1/SC 25: Interconnection of Information Technology Equipment
Working Group 1: Home Electronic System (HES)

**TITLE: Unconfirmed minutes: forty-ninth meeting held at Beijing, China, 7–10
September 2009**

SUMMARY:

The 49th meeting of the international standards committee on Home Electronic System (WG 1) was held during the week of 7 September 2009 at Beijing, China. Administrative matters, liaison reports, activity reports, and discussion of the key projects of WG 1 occupied the 1st day. The 2nd, and 3rd days were devoted to the introduction of various technical papers, activity reports, and discussion of various detailed organizational and technical issues. The 4th 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>Status</u> | <u>Affiliation</u> |
|-------------------------|-----------------|---------------|-------------------------------------|
| Mr. Jo Walling | Canada | Expert | Consultant |
| Dr. Chongyung Cao | China | Expert | IGRS Engineering Lab, Ltd. |
| Mr. Michael Ding | China | Expert | IGRS Engineering Lab, Ltd./Lenovo |
| Dr. Felix Feng | China | Expert | IGRS Engineering Lab, Ltd. |
| Mr. Xiaobing Guo | China | Expert | Lenovo/IGRS |
| Mr. Zhang Hong | China | Expert | CESI |
| Ms. Xiaolin Huang | China | Expert | IGRS Engineering Lab, Ltd. |
| Dr. Zhang Hui | China | Expert | CESI |
| Dr. Meng-Iuo Ji | China | Expert | IGRS/Intervision Software Co., Ltd. |
| Mr. Kang Lee | China | Expert | IGRS/Intervision Software Co., Ltd. |
| Mr. Dasen Li | China | Expert | IGRS |
| Prof. Dr. Runsheng Wang | China | Expert | Beijing Univ of Post & Tele (BUPT) |
| Mr. Wenfan Sun | China | Expert | Lenovo |
| Dr. Ms. Dongya Wu | China | Expert | CESI |
| Ms. Dongmei Xu | China | Expert | CESI |
| Ms. Hong Yang | China | Expert | CESI |
| Mr. Zhang Xiou Ying | China | Expert | Great Wall |
| Ms. Lan Zhuo | China | Expert | CESI |
| Mr. Luc Baranger | France | Expert | FFIE/AIE |
| Mr. Dominique Roche | Europe | Liaison | ETSI |
| Mr. Juha Vartiainen | Finland | Expert | SFS |
| Mr. Hans Langels | Germany | Expert | Siemens AG |
| Mr. Kazuyuki Yamamoto | Japan | Expert | Panasonic Electric Works, Ltd. |
| Mr. Kyung-Sik Han | Korea | Expert | SK Telecom |
| Prof. Dr. Ho-In Jeon | Korea | Expert | Kyung-won University |
| Mr. Young-Shik Kang | Korea | Expert | KATS |
| Dr. Young-Soo Kwan | Korea | Expert | KATS |
| Mr. Yonggil Park | Korea | Expert | SK Telecom |
| Mr. Woojin Shim | Korea | Expert | SK Telecom |
| Dr. Young-Sung Son | Korea | Expert | ETRI |
| Mr. Eric van Nijhuis | The Netherlands | Expert | Philips |
| Dr. Per Kaijser | Sweden | Expert | KNX Sweden |

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|-------------------------------|-----------------|------------|------------------------------|
| Dr. Dritan Kaleshi | UK | Expert | University of Bristol |
| Mr. Ron Ambrosio | USA | Expert | IBM Research |
| Ms. Florence Otieno | USA | Observer | TIA |
| Dr. Tim Schoechle (Secretary) | USA | Expert | CyberLYNX Technology |
| Mr. David Peterson | USA | Observer | Brocade |
| Dr. Walter von Pattay | SC 25 Secretary | Ex Officio | ZVEI |
| Dr. Ken Wacks (Convener) | USA | Expert | TIA, Home Systems Consultant |
| Gerd Weking | SC25 Chairman | Ex Officio | Harting KGsA |
| Mr. Gabriel Barta | | Ex Officio | IEC |

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

Monday, 7 September 2009, 9:20 am.

1. Opening of the Meeting.

The Convener, Dr. Ken Wacks welcomed the WG 1 participants to Beijing and expressed his appreciation to Dr. Dongya WU and Lan ZHUO of the China Electronics Standardization Institute (CESI) and the Chinese National Committee for the meeting arrangements. Dr. Wacks then welcomed those attending the meeting and he introduced Dr. Lin GAO, Director of the Information Technology Resource Center at CESI. Dr. GAO also welcomed the attendees to Beijing and extended an invitation to participate in a special banquet to be hosted on Wednesday evening at the Beijing Friendship Hotel. The Convener then asked the participants to introduce themselves individually.

2. Review and approval of agenda

A proposed agenda for the meeting N1363 *Proposed Agenda for Meeting (Beijing, 7–10 September 2009)* was presented.

2.1 Update of participant roster/ mailing list

The Membership roster and WG 1 reflector lists were presented. The Secretary requested that each participant review the roster (N1359) and the 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 posted on the WG 1 website and the participants and National Bodies had been duly notified by email.

2.2 Review of agenda and assignment of new contributions

Various new contributions and a proposed document register were reviewed and items were assigned to the agenda. After further discussion, the proposed Agenda was amended and adopted.

3. Approval of unconfirmed minutes of the previous meeting

3.1 Review of previous meeting minutes

The Convener reviewed document N1358 *Unconfirmed Minutes: 48th meeting held in Lyon*, the unconfirmed minutes of the previous meeting, which included the resulting resolutions and action items. Various corrections and additions were proposed at the meeting. They were discussed, and the minutes were then confirmed by consensus of the Working Group and issued as WG 1/N1384 *Confirmed Minutes: 48th meeting held in Lyon*.

3.2 Review of previous meeting action items

The Convener reviewed document N1354 *WG 1 Action Items from Lyon meeting*.

4. Liaison Reports

The Convener called the attention of the Working Group to the topic of liaison reports.

4.1 IEC TC 100—Audio/Video

Wacks reported on the activities of IEC TC100. He reported that TC100 had requested input from WG 1 regarding its work on an Energy Model. Further reporting, he called the attention of the meeting to document N1372 (25N1679) which contained CDV 62514: *Guidelines for Multimedia Gateway in Home Networks (TA9)* (IEC TC 100/1526/CDV), and he referred the document to further consideration under the work item 6.2 *HES Gateway*.

4.2 ISO/IEC JTC 1/SC 25/WG 3—Premises Wiring (von Pattay)

Pattay presented a brief report on projects in SC 25/WG 3.

4.3 CENELEC TC 205/WG 5—Residential Gateway (Pattenden)

No report was available.

4.4 ISO TC 205/WG 3—Building Automation & Protocols (Wacks)

No report was available.

4.5 ISO/IEC JTC 1/SC 27—Info Tech Security Techniques (Kaijser)

No report was available.

4.6 ISO/IEC JTC 1/SC 32/WG 2—Metadata (Schoechle)

Schoechle reported that SC 32/WG 2 (Metadata) had met in Jeju in late June.

4.7 ISO/IEC JTC 1/SC 25—Interconnection of IT Equipment (Wacks)

Pattay presented a brief report on in SC 25.

4.8 CENELEC TC 205/WG 16—Smart house (Pattenden)

No report was available.

4.9 EIA/CEA R7—Home Networks (Wacks)

Wacks reported on the current activity in the Consumer Electronics Association (CEA) R7 committee. He reported that the group was actively discussing topics related to the Digital Living Network Alliance (DLNA).

4.10 IEC TC 59—Household Appliances (von Pattay)

No report was available. Schoechle presented document N1371 *IEC TC59 NWIP Networked Home Appliances (25N1675)*, a NWIP presently out for ballot. He noted that the document included a CD and that it appeared to relate to published and ongoing HES work in WG 1. It was the consensus of the meeting that Schoechle prepare a draft of proposed ballot comments.

4.11 IEC TC61—Safety of Household Electric Appliances (Wacks)

No report was available.

4.12 IEC TC86—Optical Fiber (von Pattay)

No report was available.

4.13 JTC 1—Information Technology (von Pattay)

The report was deferred until later in the meeting.

4.14 ITU-T SG 15—Optical and other network transport infrastructures (Yamamoto)

No report was available.

4.15 IEC TC 79—Alarm Systems (Baranger)

Baranger presented document N1375 *Liaison report on IEC TC79 - Alarm systems*. He reported on the activities of PT 11, the Electronic Access Control WG (IEC 60389-11 *Electronic Access Control Systems*) and on three NWIPs concerning CCTV requirements, IP video, and analog/digital TV interface. He undertook to draft a proposed liaison report to TC 79 concerning interoperability between home systems and security equipment.

4.16 Broadband Forum—Digital Subscriber Line (Wacks)

Wacks gave a brief report on the Broadband Forum regarding their comments on FCD 29104 *CMP*. He noted that they had stated their intention to remain neutral on the topic.

4.17 UPnP Forum— (Messer)

No report was available.

4.18 GridWise Architecture Council (Ambrosio)

Ambrosio reported on the activities of the GridWise Architecture Council (GWAC). He began by providing background on the group, noting that the U.S. Congress had adopted legislation in 2007 that called on the National Institute of Standards and Technology (NIST) to work with GWAC to identify standards needed to implement “smart grid” technology. He noted that several working groups had been formed, including “home-to-grid”, “vehicle-to-grid”, and a business and policy group.

He further reported that NIST had been preparing a special report known informally as the *Smart Grid Roadmap* for standards. He reported that GWAC had been asked to coordinate the development of interoperability standards for the smart grid, and that a conference and a series of workshops known as *Grid-interop 2009* was scheduled for 17-19 November in Denver for that purpose.

4.19 SC 25/PTTT—Project Team Taxonomy and Terminology (Kaijser)

Kaijser reported that the SC 25 Project Team Taxonomy and Terminology (PTTT) would be meeting this week. He noted that the group was working on resolving ballot comments reported in 25N1683 *Voting report on ISO/IEC JTC 1/SC 25 N 1652: ISO/IEC PDTR 29107-1: Information technology - Taxonomy of specifications - Part 1: The taxonomy and methods*. The Convener noted that time would be allocated on Wednesday morning.

5 Activity Reports

The Convener deferred the topic of Activity Reports until later in the meeting.

6. Review and discussion of the HES work program

The Convener called the attention of the Working Group to the work program.

6.6 Discussion of *HES Services and Requirements*

Son presented N1376 *Home Network Resource Management presentation*. A discussion followed.

The Convener then adjourned the meeting at 6:30 p.m. until the next day at 9:00 am.

Tuesday, 8 September, 9:10 am.

6.3 Discussion of HES Architecture (01.04.01: 14543-5-1, -2, -3, -4)

The topic of HES Architecture was then discussed. Ding gave a presentation of N1378 *ISO/IEC 14543-5-x: IGRS Specification* concerning a review and report on the latest developments in IGRS. He reported that part 1 had been approved, that part 21 had passed CD, and that part 22 had passed FCD. He further noted that parts 1 and 22 FDIS were in the process of being issued.

6.4 Discussion of *HES Application Services and Protocol (01.04.02-01: CD 29104)*

Jeon presented a discussion on CD 29104 *Centralized Management Protocol (CMP)*. He reported on a letter he had received from Robin Mersh regarding issues raised by the Broadband Forum (formerly known as the DSL Forum) in response to Jeon's request for technical input regarding CD 29104 (three parts). He commented that he believed that he had done all that he could do to harmonize CD 29104 with the TR69 documents, but had received no proposals as to how the CD 29104 drafts could be improved. After discussion, it was the consensus of the meeting to approve the advancement of the draft (three parts) for FCD ballot.

6.6 Discussion of *HES Services and Requirements (continued)*

Han gave a presentation N1377 *OuterNet Technology & Application*. A discussion followed.

5 Activity Reports

The Convener returned the meeting to the topic of Activity Reports. Kaleshi reported on activities regarding The Application Home Initiative (TAHI).

The Convener returned the meeting to the topic of Liaison Reports

4.13 JTC 1—Information Technology (von Pattay)

Pattay presented document JTC 1 N9414 *Resolutions Adopted at the 23rd Meeting of ISO/IEC JTC 1, 10-15 November 2008 in Nara, Japan*. He called attention to Resolutions 12 (coordination with TC100), 21 (SGSN), and 44 (competing specifications). He commented further on potential overlaps with WG 1 work including the JTC 1 Study Group on Sensor Networks and work in IEC TC 100 and TC 59. He also noted that the LonTalk PAS document had been stalled by TC 205 over an issue related to the document title (i.e., generic home/building).

4.15 IEC TC 79—Alarm Systems (Baranger) – *continued*

Baranger presented N1375 *Liaison report on IEC TC79 - Alarm systems*, a proposed liaison report to IEC TC79. After discussion and minor modification, the proposed report was adopted by the meeting.

The Convener returned the attention of the meeting to the work program

6.1 Discussion of *HES Interoperability (01.07.01: 18012-2)*

The topic of HES interoperability was then discussed. Ambrosio presented document N1360a *FCD 18012-2 Interoperability*. He reported that the CD had been balloted and comments returned were reported in N1367 *Voting report on CD 18012-2 Interoperability (25N1663)*. He further reported that upon reviewing the voting report and comments, he discovered that substantial unauthorized changes had been made to the draft by the SC 25 Secretary prior to issuance of the ballot. He further noted that these changes included the deletion of the entire *Annex A*, that that these changes substantially diminished the usefulness of the ballot and comments and resulted in needless confusion and negative comments. The SC 25 Secretary could offer no explanation for the alterations. After discussion, it was the consensus of the meeting that an extension of time was needed on the project to compensate in part for an added ballot cycle, and that an appropriate resolution to that affect would be proposed to the SC 25 plenary meeting on Friday. The meeting then proceed to discuss the ballot comments and prepare a draft of N1368 *Proposed ROC on N1360 CD 18012-2 Interoperability*. The topic of a possible title change was discussed.

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

Wednesday, 9 September, 9:10 am.

6.7 Discussion of *HES Terminology (01.01.03: TR 15044)*

No new contributions were presented and no discussion was conducted.

The Project Team Taxonomy and Terminology (PTTT) was then convened by Kaijser.

5 Activity Reports

The Convener returned the meeting to the topic of Activity Reports. Roche presented N1379 *ETSI ATTM Organization & Green Agenda – presentation* on the topic of energy efficiency in telecommunications operations. After discussion, Roche then presented N1380 *GESI EEIOCG Standardization Branch – presentation* on further aspects of the same the topic.

The Convener returned the attention of the meeting to the work program.

6.5 Discussion of *HES Lower Layer Services and Protocols (01.18.01-03)*

Jeon conducted a discussion of CD 29145 *WiBEEM Standard for Wireless Home Network Services* (three parts). He presented 25N1666 NWIP for *Part 2: MAC Layer Specifications* and 25N1667 NWIP for *Part 3: Network Layer Specifications*.

6.1 Discussion of *HES Interoperability (continued)*

Ambrosio and Kaleshi resumed discussion of the ballot comments on CD 18012-2 Interoperability.

The Convener then adjourned the meeting at 6:00 p.m. until the next day at 8:00 am.

Thursday, 10 September, 8:00 am.

The Convener re-convened the meeting and returned the meeting to discussion of the ballot comments on CD 18012-2 Interoperability.

6.2 Discussion of *HES Gateway (01.03.02: 15045-2)*

The topic of HES Gateway was then discussed. Schoechle presented document N1369 (25N1589) *Voting report on NWIP 15045-2 Home Electronic System (HES) Gateway – Part 2: Modularity and Protocol (25N1678)* and N1370 *Voting report on CD 15045-2 HES gateway – Part 2: Modularity and protocol (25N1680)*. He reviewed the comments and his proposed resolution of comments, N1381 *RoC on HES Gateway NWIP 15045-2 (25N1549)* and N1382 *RoC on HES Gateway CD 15045-2 (25N1651)*. He noted that many of the comments were similar and reflected the impression that there was overlap or conflict between the HES gateway and the IEC TC 100 gateway-related work contained CDV 62514: *Guidelines for Multimedia Gateway in Home Networks (TA9)* (IEC TC 100/1526/CDV). He proposed text that would explain the complementary and non-overlapping relationship between the HES and IEC documents. After discussion, it was the consensus of the meeting to approve the proposed RoCs on both the NWIP and CD, and the advancement of the CD to a second CD ballot. It was also the consensus of the meeting that Schoechle and Kaijser would propose comments on IEC TC 100/1526/CDV.

6.6 Discussion of *HES Services and Requirements: Application models (25.01.04.02-03: TR 15067-3)*

Wacks presented document N1366 *WD 18012-3 Interoperability - Application Models - Energy Management*. He noted that this draft was a revision of a published Technical Report, *TR 15067-3 Application models — Part 3: Model of an energy management system for HES*. After discussion, it was the consensus of the committee that the document should be upgraded from a Technical Report to an International Standard, retaining its original project designation rather than becoming part of 18012 *Interoperability*. It was the consensus of the meeting to approve the advancement of the WD to a CD ballot, after appropriate revision and review by WG 1.

6.4 Discussion of *HES Application Services and Protocol (continued)*

Jeon presented certain revisions to the RoC for CD 29104 *Centralized Management Protocol (CMP)*. It was the consensus of the meeting to approve the revisions and move the CD forward to FCD ballot.

7. Working Party Assignments

The Convener introduced and summarized the HES work program and scheduled discussions on various topics by working parties.

8. Reports from project editors on Working Party activities

The Convener asked the project editors to provide any remaining reports on their working parties/editing committees and conclude their work.

9. Administrative

9.1 Update Program of Work

The Convener then formed a working party to update the work program.

9.2 Electronic document distribution

The Convener called attention to the WG 1 website at <hes-standards.org> (user=hes; PW=wg1).

9.3 Liaison changes and requests

No liaison changes or requests were proposed.

9.4 Resolutions

Proposed resolutions were drafted and adopted unanimously.

10. Outreach and promotion

Nothing was reported or proposed.

11. New issues and business

No further new business was proposed.

12. Review of action items, assignments, deliverables, and schedule for next meeting

Action items from the meeting were discussed, compiled, and issued as document N1383 *Action items for WG 1 from the Beijing meeting*.

13. Closing of the meeting

The Convener thanked Dr. Dongya WU, Ms. Lan ZHUO, and Ms. Hong YANG of CESI and the Chinese National Committee for the meeting arrangements and for the excellent administrative support. He then thanked Dr. Lin GAO of CESI for the facilities and hospitality, and especially thanked Dr. Lin GAO and Mr. Michael DING of IGRS for hosting the special banquet hosted on Wednesday evening at the Beijing Friendship Hotel.

The Convener then thanked the participants for their hard work and contributions. He further requested that the members remind those not in attendance of the importance and timeliness of the WG 1 work and encourage them to focus on attending meetings and providing contributions. The Convener then adjourned the meeting at 5:10 p.m.

UPCOMING MEETING SCHEDULE:

| | | |
|------------|----------------|--|
| WG 1 | April 2010 | New York or Regensburg (pending invitation)* |
| WG 1/SC 25 | September 2010 | Seattle* |

* date and venue are subject to change



ACTION ITEMS FOR WG 1 FROM THE Beijing MEETING 10 September 2009

1. **Ambrosio** and **Kaleshi** will prepare a CD on ISO/IEC 18012-2 by 1 December.
2. **Jeon** will prepare a NWIP for ISO/IEC 29145-4 and -5 (*WiBEEM* applications and security) by 15 December.
3. **Han** and **Park** will prepare NWIP for *OuterNet* by 15 December.
4. **Jeon** will prepare white paper for *Address Translation* by 15 December.
5. **Schoechle** will prepare 2nd CD for ISO/IEC 15045-2 by 1 November.
6. Gateway working party will prepare comments on IEC 62514 by 1 October. **Schoechle** will prepare liaison report to TC100/TA9 by 15 October.
7. **Schoechle** will prepare text for ballot comment on IEC TC59 *Appliance Management* NWIP by 1 October. **Schoechle** will seek advice from **Wacks**, **Ambrosio**, **Langels**, and **Gale Horst** (EPRI).
8. **Schoechle** will submit liaison report for IEC TC79 *Alarm Systems* prepared by **Baranger** to SC25 Secretary by 1 October.
9. **Ding** will prepare FCDs for IGRS Parts 3, 5, 6, and 21 by 1 December.
10. **Wacks** will prepare CD 15067-3 by 15 October after circulated to **Langels**, **Kaijser**, **Jeon**, **Ambrosio**, **Son**, **Kaleshi**, and **Schoechle**.
11. **Son** will submit NWIP *Home Network Resource Management* by 15 December.