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ISO/IEC/JTC 1/SC 25/WG 1 N1347
WG 1 (Lyon, Schoechle) 1
20 September 2008

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

TITLE: Confirmed minutes: forty-seventh meeting held at Milan, Italy, 31 April–4 May 2008

SUMMARY:

The 47th meeting of the international standards committee on Home Electronic System (WG 1) was held during the week of 31 April–4 May 2008 at Milan, Italy. Administrative matters, liaison reports, activity reports, and discussion of the key projects of WG 1 occupied the 1st day. The 2nd, 3rd, and 4th days were devoted to the introduction of various technical papers, activity reports, 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>Status</u>	<u>Affiliation</u>
Mr. Robert Bothe	Belgium	Expert	Niko
Mr. Luc Baranger	France	Expert	FFIE
Ms. Florence Santini (Mo)	France	Observer	FFIE/AIE
Dr. Chongying Cao	China	Expert	IGRS Engineering Lab Ltd./Lenovo
Mr. Michael Ding	China	Expert	IGRS Engineering Lab Ltd./Lenovo
Mr. Xiaobing Guo	China	Expert	Lenovo
Mr. Min Liu (Mo-Thu)	China	Observer	Chinese Academy of Sciences–ICT
Mr. Cunfu Wang	China	Observer	MMI
Dr. Mrs. Dongya Wu	China	Expert	CESI
Ms. Lan Zhuo	China	Expert	CESI
Mr. Hans Langels	Germany	Expert	Siemens AG
Dr. Walter von Pattay	Germany	Ex Officio	SC 25 Secretary, ZVEI
Mr. Paolo Mongiovi	Italy	Expert	Sistema Casa
Mr. Akira Toba	Japan	Expert	Echonet/Toshiba Carrier Corp.
Mr. Kazuyuki Yamamoto	Japan	Expert	Matsushita Electric Works, Ltd.
Mr. Jin-Seok Bae	Korea	Expert	KATS
Dr. Ho-In Jeon	Korea	Expert	Kyung-won University
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	RCS Technology AB
Dr. Dritan Kaleshi	UK	Expert	University of Bristol/PUKE
Mr. Stephen Pattenden	UK	Expert	TAHI
Mr. Ron Ambrosio	USA	Expert	IBM Research
Mr. Ed Barrett	USA	Expert	Sony
Mr. Vijay Dhingra (Tu)	USA	Expert	Echelon Corporation
Mr. Alan Messer (Mo-Wed)		Liaison	UPnP Forum/Samsung Electronics
Dr. Tim Schoechle (Secretary)	USA	Expert	CyberLYNX Technology
Dr. Ken Wacks (Convener)	USA	Expert	TIA, Home Systems Consultant

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

4.1 IEC TC 100—Audio/Video

No report was available.

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

Pattay reported on activities in SC 25/WG 3 including recent work on plastic optical fiber for premises cabling.

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

Pattenden reported that CENELEC TC 205/WG 5 had been dormant waiting for the interoperability project.

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

No report was available.

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

No report was available. Wacks reported that he expected a report before the end of the meeting.

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

Kaijser reported that he had attended a meeting of SC 27 on 4 October 2007 in Switzerland and he presented document N1316 *Liaison report to SC 27 - 25N1429*. He further reported that the next meeting was scheduled for 8 April 2008 in Kyoto. Pattay offered to convey a liaison report to be sent/carried to the Kyoto meeting. The convener appointed Kaijser, Yamamoto and Toba as an *ad hoc* working party to draft the report.

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

Schoechle reported that SC32 WG2 (Metadata) had met in Korea in November.

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

Pattay reported that the next meeting of SC 25 was scheduled for 24 October 2008 in France and he requested that the Convener schedule the WG 1 meetings for the beginning of that week. He further reported that the terms of the SC 25 Chairman and the Conveners of WG 1 and WG 3 would expire in 2008. He further reported that the next IEC general meeting had been planned to be held in Israel 11–22 October 2009. Finally, he then called attention to document N1313 SC 25 *Secretary's opinion on clarification of Banff-42 – 25N1472* related to a resolution of SC 25 in Jeju (25N1395) requesting advice from JTC 1 in this matter.

4.9 CENELEC TC 205/WG 16—Smarthouse (Pattenden)

Pattenden reported on the activities of CENELEC TC205 WG 16. He reported on Smarthouse code of practice and that the Smarthouse project was funded, had held regular meetings, and was actively seeking interested parties for manufacturing. He noted that the project had a new focus on a “framework for interoperability.” He further noted that the group had last met in Rome

(with CEI as host) in January and that the next meeting was planned for 26 May 2008 in conjunction with CLC TC 205/WG 16.

4.10 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 digital telephony, power line carrier, interface to IEEE 1394, and Digital Living Network Alliance (DLNA). He noted that the next meetings were scheduled for mid May and mid October.

4.11 IEC TC 59—Household Appliances (Pattay)

No report was available. Pattenden commented that IEC TC 59 was a “silo” situation and he undertook to renew the liaison with the group.

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

No report was available.

4.13 IEC TC86—Optical Fiber (Pattay)

Pattay reported that an amendment to ISO/IEC 15018: Home cabling, on optical fibres including plastic optical fiber is being developed in SC 25/WG 3 presently.

4.14 INCITS V2—IT Access Interfaces (Farance)

No report was available.

4.15 JTC 1/SC 22 WG 11—Abstract Data Types (Farance)

No report was available.

4.16 JTC 1—Information Technology (Farance)

Pattay reported that he had attended the meeting of JTC 1 held in November in Gold Coast, Australia. He further reported on some resolutions from the meeting that were relevant to WG 1: 1) request to use teleconference methods required a 60-day lead on agenda; 2) no fees could be required in SC or WG meetings; 3) various ITU-T issues; 4) a study group on sensor networks had been formed to report to the next meeting; and 5) JTC 1 has been asked by SC 25 to clarify “consistency” among standards and by the US on the role of the market. Finally he reported on certain documents that had been distributed for ballot at the JTC 1 level (e.g., FDIS 14543 HES Echonet, etc.).

Pattay then noted that Kazakhstan would likely lose its P-member status in JTC 1/SC 25 and that Lebanon would likely join. He then returned to the subject of guidance from JTC 1 regarding Banff-42 and proceeded to read a letter by John Siemon regarding 25N1472.

4.17 JTC 1/SC 36—Info Tech for Learning, Ed. & Training (Farance)

No report was available.

4.18 ITU-T SG 15 Q4—DSL (Jones)

No report was available.

4.19 IEC TC 79—Alarm Systems

No report was available. Barranger commented that the meetings of IEC TC 79 would resume and he undertook to report further to WG 1 in October.

4.20 DSL Forum—Digital Subscriber Line (Wacks)

No report was available.

4.21 UPnP Forum— (Messer)

Messer reported on the activities of the UPnP Forum. He specifically discussed comments from the UPnP Forum on three topics: 1) certain technical issues; 2) IGRS—part 1 ballot comments (25N1424); and 3) protection of specifications of members. Pattay undertook to provide the text of the resolution of comments related to N1314 and N1315.

5 Activity Reports

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

7. Working Party Assignments

The Convener introduced and summarized the HES work program and scheduled discussion on the following topics according to various requests for input:

- Gateway (6.7)—Barranger; Monday, Tuesday
- IGRS CD ballot RoC (6.3)—Messer; Monday, Tuesday, Wednesday
- Security RoC on October ballot pt. 1 & 2 (6.9)—Kaijser, Yamamoto, and Toba;
- WiBEEM NP (6.3)—Jeon; Tuesday
- CMP harmonization (6.3)—Jeon; as time permits
- Interoperability (6.8)—Ambrosio, Kaleshi; Wednesday
- Safety (6.9)—Wacks; Thursday;
- Roadmap (6.3)—Schoechle; Thursday

8 Reports from project editors/working party leaders

The Convener turned the meeting to the topic of working party reports. Kaijser reported on the results of the working party on security. He reported that all issues had been resolved and that a final version of the liaison statement to SC 27 for its meeting in April would be available on Friday. His report was accepted without change by consensus of the meeting.

5 Activity Reports

The Convener returned to the topic of Activity Reports.

Ambrosio reported on the activities of the GridWise Architecture Council (GAC) and on the *Grid-interop Forum* on “smart grids” that it had conducted in Albuquerque, New Mexico, USA, 7–9 November 2007. He noted that the *Forum* website <<http://www.grid-interop.com>> contained many freely available papers, documents (in .pdf format), and summaries of the proceedings. He further reported that the project was in part encouraged by the U.S. Congress through recent legislation (*i.e.*, the *Energy Information and Security Act of 2007*, section on

“smart grids”) which designated the U.S. National Institute of Standards and Technology (NIST) to coordinate a grid interoperability framework in cooperation with IEEE, GAC, and others (*e.g.*, utility industry, manufacturers, governments, and regulators). He further noted that the technical work of the grid-interop project was partly focused on energy management applications including smart buildings and smart homes.

Schoechle reported on the newly-formed JTC 1 Study Group on Sensor Networks (SGSN). He reported that the group had held no meetings to date and had conducted no technical correspondence other than circulating a copy of a magazine article (*IEEE Communications*, August 2002) titled “A Survey on Sensor Networks,” with an invitation to comment. He further reported that the group is planning to hold a face-to-face meeting in Shanghai, 25-27 June 2008 and has solicited technical papers and other input in preparation for that meeting.

Mongiovi reported on a study on home automation in Italy, noting that he intended to give a formal presentation on the study later in the meeting.

Wacks reported on the Electronic House Expo held in Orlando, Florida, U.S.A., noting that it had between 5 and 7 thousand attendees.

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

Tuesday, 1 April, 9:00 am.

6. Review and discussion of the HES work program

6.1 Discussion of *HES Introduction*

No new contributions were presented and no discussion was conducted.

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

No new contributions were presented and no discussion was conducted.

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

The topic of the WiBEEM new work item proposal was discussed. Jeon presented document N1308 *Proposed Disposition of Comments on 25N1426B WiBEEM NP*. After discussion, he undertook to incorporate the comments from the discussion into the proposed resolution of comments document.

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)*

Schoechle introduced document N1299 *HES Gateway FCD2 15045-2 (25N1437)* and then began discussion of a proposed resolution of comments document. After an extended discussion, it was the consensus of the meeting that the bulk of the comments would be satisfied by 1) elimination

of references to MODBUS as the gateway-link protocol and its replacement with reference to the newer and more appropriate OMG DDS protocol, and 2) moving specification of interworking functions to the ISO/IEC 18012-2 standard. Schoechle undertook to complete the draft resolution of comments and the FCD text changes and to proceed to issue a third FCD ballot. Schoechle also undertook to edit the proposed resolution of comments document and present it by the end of the meeting.

Schoechle presented document N1326 *Generic Home Network Transport Architecture*, a liaison contribution that had been forwarded by Andrew Nunn (Vice Chair of ITU-T, SG 15 and Chair of WP-1 on Home Networks, as well as Convener of the ITU-T JCA).

The Convener then adjourned the meeting at 1:00 p.m. until the next day at 9:00 am to allow the attendees to have lunch and then attend a site visit and factory tour of the BTcino facilities in Erbe.

Wednesday, 2 April, 9:00 am.

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

The topic of HES Interoperability was then discussed. Kaleshi presented document N1318 *Reflections on the Interoperability Project and the SC 25/WG 1 Roadmap*. Ambrosio then presented document N1324 *18012-2:2008 FCD plan*, and then he conducted a discussion of a proposed resolution of comments on the last CD. Son then presented document N1308 *An Interoperability Application Example*.

Pattenden then presented document N1325 *Interoperability Considerations for the Home – presentation* regarding the TAHI project and the Interoperability Framework Initiative (IFI).

6.3 Discussion of *HES Architecture* (continued)

The topic of HES Architecture was again discussed. Ding presented document N1332 *IGRS Part 5-1 CD-RoC* and document N1333 *IGRS Part 5-22 CD-RoC* proposing resolution of the comments on the various parts of IGRS. A lengthy discussion then ensued on the topic of various proposed changes to IGRS to avoid conflict with UPnP, and on certain related copyright issues. Discussions about alignment of UPnP and IGRS continued without conclusion.

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

Thursday, 3 April, 9:05 am.

The topic of HES Architecture resumed with a continuing discussion of the proposed resolution of comments on the two IGRS CDs. After discussion, it was the consensus of the meeting to adopt the proposed resolution of comments for the CD part 5-22. Ding undertook to make further edits and proposals for the resolution of comments on the remaining CD part 5-1.

Discussion of HES Architecture then continued with a discussion of the WG 1 “Roadmap.” Schoechle presented document N1276 *The Roadmap of WG 1, 2007 Edition* and then conducted a discussion regarding updating the document. The Convener then delegated further work on the Roadmap working party under the leadership of Schoechle and including Langels, Jeon, Yamamoto, and Wacks.

6.9 Discussion of *HES Reference Implementation: Home Network Safety (01.09: 14762)*

The topic of HES Safety was discussed. Langels presented document N1327 *RoC on HES safety FCD 14762 (25N1435)* and a discussion proceeded. The Convener then delegated further work on the safety documents to the safety working party under the leadership of Langels.

6.9 Discussion of *HES Reference Implementation: Home Network Security (01.09: 24767)*

The topic of HES Security was then discussed. Kaijser presented proposed drafts of documents N1328 *RoC on HES Security part 1 – FCD 24767-1 (25N1320A)* and N1329 *RoC on HES Security part 2 – CD 24767-2 (25N1321A)*. He noted that part 1 appeared to be ready to go to FDIS ballot and part 2 still had issues to resolve (e.g., scope, protocol details, etc.). The Convener then delegated further work on the security documents to the security working party under the leadership of Kaijser.

4. Liaison Reports

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

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

Wacks presented document N1312 *Liaison Report from ISO TC 205/WG 3* that had been provided by Steven Bushby of NIST.

The Convener then adjourned the meeting at 1:00 p.m. until the next day at 9:00 am to allow the attendees to have lunch and then attend a city tour of Milan to be hosted by Sistema Casa.

Friday, 4 April, 9:15 am.

6.9 Discussion of *HES Reference Implementation: Home Network Security (01.09: 24767)*

The topic of HES Security continued. Kaijser presented a report of the security working party and presented a proposed draft of document N1330 *Liaison statement from SC 25 to SC 27*. After discussion, it was the consensus of the meeting to forward the liaison statement to SC 27, urging them to take action. Kaijser then presented proposed final drafts of documents N1328 and N1329. After discussion it was the consensus of the meetings to adopt these documents and forward the updated FCD text for part 1 for FDIS ballot and the CD text for part 2 for FCD ballot.

6.9 Discussion of *HES Reference Implementation: Home Network Safety (01.09: 20587)*

The topic of HES Safety was discussed. Langels presented a report of the safety working party and presented a proposed draft of document N1327 *RoC on HES safety FCD 14762 (25N1435)*. After discussion it was the consensus of the meetings to adopt this document and forward the updated FCD text for FDIS ballot.

6.7 Discussion of *Residential Gateway (continued)*

Schoechle introduced document N1299 *HES Gateway FCD2 15045-2 (25N1437)* and then reviewed the proposed resolution of comments document that had been discussed earlier, with particular attention to the German comments, including some changes and additions that had been developed by the gateway working party. Ambrosio then presented document N1335

Requirements for Gateway Link Protocol - 2008-04-04.doc that listed the GL protocol requirements that had been identified by the working party. It was the consensus of the meeting to include these requirements in the FCD text. Alternative protocol suggestions were invited if they could meet the identified requirements. It was the consensus of the meeting to adopt the draft RoC and, pending any clear alternative suggestions to the working party, to forward the updated text for FCD3 ballot by June 16.

6.3 Discussion of *HES Architecture* (continued)

Discussion of HES Architecture then continued with a discussion of the WG 1 “Roadmap.” Schoechle presented a report of the roadmap working party and he presented a proposed revision of document N1276 *The Roadmap of WG 1, 2007 Edition* that had been agreed upon by the working party. It was the consensus of the meeting that Schoechle and Wacks would edit the text and figures accordingly, circulate it to the working party, and re-issue the document as the 2008 edition.

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.

Jeon reported on the results of the CMP working party and he presented proposed draft RoC-related documents N1310 *CMP-1 ROC with Implementations* and N1311 *CMP-1 Harmonized with TR-069*.

Mongiovi reported on a study on home automation in Italy, presenting document N1334 *Home Automation in Italy – presentation*.

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

9.4 Resolutions

No resolutions were proposed.

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 N1331 *Action items for WG 1 from the Milan meeting*.

13. Closing of the meeting

The Convener thanked Mr. Paolo Mongiovi of Sistema Casa and Ms. Mariangela Ossola of CEI for the meeting arrangements and for the excellent administrative support. He thanked Mr. Carlo Masetti, CEI Director of Institutional and International Affairs for the facilities and hospitality. Finally, he then thanked BTicino for hosting the site visit on Tuesday afternoon, and he thanked Sistema Casa for hosting the city tour of Milan on Thursday afternoon.

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 4:00 p.m.

UPCOMING MEETING SCHEDULE:

WG 1/SC 25	20–23/24 October 2008	France (pending invitation)*
WG 1	March–April 2009	no information yet available*

* date and venue are subject to change



WG 1 N1331

***ACTION ITEMS FOR WG 1 FROM THE Milan MEETING
4 April 2008***

1. **Ding** will release RoC for WG 1 approval by May 1, and will release new FCD text for IGRS Parts 5-21, 5-5, & 5-6 by early June.
2. **Ding** will release IGRS text for FCD part 1 by May 15
3. **Ding** will release IGRS text for FCD part 5-22 by May 15
4. **Jeon** will release WIBEEM CD text by early July.
5. **Jeon** will edit CMP FCD text by April 11, circulate CMP parts 1, 2, & 3 text to liaisons (ITU-T, ETSI, and DSL Forum) for 4 week-review (and update text if needed) (with WG 1 help if needed) and release by early June.
6. **Ambrosio** will release RoC on CD1 18012-2 by April 4. **Ambrosio** will release new 18012-2 CD2 text by June 16.
7. **Schoechle** will release RoC on FCD2 15045-2 by April 4. **Schoechle** will release new FCD3 15045-2 text by June 16.
8. **Wacks** and **Schoechle** will edit Roadmap and provide to Roadmap WP by May 30. **Roadmap WP** (Wacks, Schoechle, Langels, Yamamoto, Jeon) will release Roadmap to WG 1 by July 1.
9. **Langels** will release Safety RoC and text for FDIS to WP by June 15. WP will release for FDIS by July 15.
10. **SC25 Secretariat** will release liaison letter on security part 2 to SC27 by April 12. **Murakami** (editor), after WP review, will circulate to WG1, if substantial changes are needed. Then **Murakami** will release part 2 FDIS text by July 1.
11. **Kaijser** will release RoC on security part 1 by April 4. **Murakami** will release FDIS text by July 4.