

**IEEE P802.11  
Wireless LANs****LIAISON - ETSI STC RES-10****Minneapolis MN, 6-10th July 1992**

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This paper reports on progress on the HIPERLAN standard in ETSI Sub-Technical Committee (STC) RES-10 since the last IEEE 802 plenary (March 1991). Background information concerning RES-10 is given in an Annex to this paper.

Two experts were appointed at the beginning of May to form PT41 — the project team supporting RES-10 in the development of HIPERLAN. PT41 has been assisting RES-10S in preparing the HIPERLAN Services and Facilities document, a first draft of which was reviewed at the RES-10S meeting at the end of June. RES-10R continues to identify and review a range of techniques that may be applicable to HIPERLAN. A outline of the taxonomy document has been agreed and a draft is planned for review at the next meeting of RES-10R in September.

Originally RES-10 had planned for a PT41 member to attend IEEE 802.11, providing an active liaison between the two groups. However, at the meeting of TC RES (the parent group of RES-10) in March it was decided that liaison should be the responsibility of the individual ETSI members that participate in both groups. In order to actively represent ETSI views in IEEE 802.11, RES-10 has drafted a letter to TC RES requesting permission for its members to make available, with the approval of STC RES-10, certain of its documents for distribution in IEEE 802.11.

The CEPT Radio LAN project team has continued its analysis and spectrum engineering studies to identify a suitable band in the region of 5GHz to support HIPERLAN. A draft Recommendation has been produced identifying a band at 17GHz (17.1 – 17.3GHz) and three possible alternatives at 5GHz (5.15 – 5.30GHz, 5.25 – 5.40 GHz, or 5.47 – 5.65 GHz). The band 5.00 – 5.25GHz is allocated to the Aeronautical Radionavigation Service to be used for Microwave Landing Systems (MLS), but there are currently no plans to use the upper part of this band (5.15 – 5.25GHz). Compatibility studies are in progress to determine the suitability of this band for HIPERLAN systems. The two alternative bands under consideration are currently allocated for Radiolocation and Maritime Radar. RES-10 has drafted comments on the Recommendation which will be submitted to the CEPT. The 5.15 – 5.25GHz band is particularly interesting since it may be available worldwide.

The next meeting of RES-10 will be on 17-19th November, hosted by Roke Manor Research at Romsey in the UK.

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## Annex — Background Information

### STC RES-10 — HIPERLAN

The Terms of Reference of RES-10 are:

- to specify the Services and Facilities of standards for high performance radio local area networking, including the appropriate degree of standardisation;
- to undertake and support technical investigations preparatory to the creation of such standards;
- to draft an open standard for high performance radio local area networking, offering at least 10Mbits/s at the terminal and supporting at least 100Mbits/s/ha/floor, including a radio specification and any necessary associated standards;
- to liaise with appropriate bodies including CEPT, ECMA, IEEE and CCIR to achieve the greatest co-ordination with related standards activities;
- to liaise with relevant research bodies and programmes;
- to draft standards consistent with agreements reached with CEPT on spectrum allocations for radio LANs.

The work on HIPERLAN is scheduled for completion in late 1994.

Initial work on HIPERLAN is being carried out within two working groups, both reporting to RES-10. RES-10S is a services and requirements group, tasked to:

- define the requirements of actual and potential markets for HIPERLAN;
- draft a 'Services and Facilities' document defining the functional requirements of the HIPERLAN standard;
- draft a RES-10 operating glossary; and
- identify key issues associated with functional conformance.

RES-10R is a radio group, tasked to:

- study and provide guidance on the technological feasibility of the functional requirements;
- identify and reviewing alternatives for topology, modulation, protocols, etc.;
- draft technical inputs to be used in spectrum allocation studies; and
- evaluate the implications of spectrum sharing.

RES-10S is Chaired by Jan Kruijs (NCR) and RES-10R by Tom Freeburg (Motorola).

The officers of ETSI RES-10 are:

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