



**ISO / IEC JTC1/ SC25 WG1 N1046**

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WG1 (London, Chen)2  
Date: February 7, 2003

**ISO/IEC JTC1 SC25 WG1  
Interconnection of Information Technology Equipment  
Home Electronic Systems**

**Title:** Proposed Amendment to Annex HomeGate A 15045-1

**Source:** Abraham Y. Chen, US Expert

**Project:** 01.03.02: 15045-1

**Requested Action:** For consideration at the WG1 meeting  
to be held February 17-21, 2003

**Distribution:** P-, L-, O- Members of SC25 WG1

**Proposed  
Amendment to  
Residential Gateway Architecture  
SC 25 N778, Annex A.2.6.2; Simple gateway**

The following is the preliminary language proposed to be amended to the current document:

- A. This “Simple gateway” may be used as the default configuration for the initial deployment of a home network. The transmission technology utilized would thus be regarded as the HAN backbone for that premise.
- B. The HAN backbone vendor should provide, as an add-on module, a media conversion bridge to the common transmission technology, Ethernet. For ease in reference, this type of bridges shall be called “half-bridge”.
- C. For applications or locations that the backbone HAN could not satisfactorily perform the service desired, an additional HAN segment shall be attached to the backbone HAN, through a half-bridge that interfaces the new HAN segment to the common Ethernet. From there, a half-bridge from the backbone HAN completes the network expansion.
- D. For a premise served by more than one WAN, the “Simple gateway” configuration shall be used to extend the additional WAN service onto the premise via a separate HAN segment. Then, half-bridges shall be used to link the two HAN segments together. Consequently, services from both WANs are available to all nodes on both HAN segments.
- E. To realize the operation of the half-bridges above, protocol translations to a common standard shall be implemented in respective half-bridges. For example, DCTP (Data and Control Transfer Protocol) should be implemented by each HAN technology provider to the common Ethernet in the respective half-bridges.
- F. The above configuration will allow a very simple home network to be established with only the specific transmission technologies of interest to the premise owner. Expansion to or inclusion of any additional technologies shall only occur under the express intention of the owner.