DATE: 15th Dec, 2008
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REQUESTED REVISION:
STANDARD: IEEE Std 802.3-2008
CLAUSE NUMBER: Annex 28A, 30
CLAUSE TITLE: Selector Field definitions, Management

PROPOSED REVISION TEXT:

See attached.

RATIONALE FOR REVISION:

To update IEEE Std 802.3 with the Auto-Negotiation Selector field allocated to INCITS on 10th October 2006.

IMPACT ON EXISTING NETWORKS:

None, this is an additional network type supported by Auto-Negotiation. In addition the value has been available on the IEEE 802.3 selector field web page, referenced in IEEE Std 802.3 as the up-to-date source for these values, since its allocation.
Annex 28A

(normative)

Selector Field definitions

Change Table 28A-1 as follows:

Table 28A–1—Selector Field value mappings

<table>
<thead>
<tr>
<th>S4</th>
<th>S3</th>
<th>S2</th>
<th>S1</th>
<th>S0</th>
<th>Selector description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Reserved for future Auto-Negotiation development</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>IEEE Std 802.3</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>IEEE Std 802.9 ISLAN-16T</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>IEEE Std 802.5</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>IEEE Std 1394</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>INCITS Reserved for future Auto-Negotiation development a</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>X</td>
<td>Reserved for future Auto-Negotiation development a</td>
</tr>
<tr>
<td>0</td>
<td>1</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Reserved for future Auto-Negotiation development</td>
</tr>
<tr>
<td>1</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Reserved for future Auto-Negotiation development</td>
</tr>
</tbody>
</table>

*aFor up-to-date information on the allocation of Auto-Negotiation Selector Fields see http://www.ieee802.org/3/selectors/selectors.html

30.6.1.1.8 aAutoNegLocalSelectorAbility

Change 30.6.1.1.8 as follows:

ATTRIBUTE

APPROPRIATE SYNTAX:
A SEQUENCE that meets the requirements of the description below:
other Undefined
ethernet IEEE Std 802.3
isoethernet IEEE Std 802.9a-1995
tokenring IEEE Std 802.5
incits INCITS

BEHAVIOUR DEFINED AS:
This indicates the value of the selector field of the local hardware. The Selector Field is defined in 28.2.1.2.1 for Clause 28 Auto-Negotiation and 73.6.1 for Clause 73 Auto-Negotiation. The enumeration of the Selector Field indicates the standard that defines the remaining encodings for Auto-Negotiation using that value of enumeration. For Clause 37 Auto-Negotiation devices, a SET of this attribute will have no effect, and a GET will return the enumeration “ethernet”;