Project: IEEE P802.15 Working Group for Wireless Personal Area Networks

Submission Title: [Projected data rate]
Date Submitted: [September 20, 2005]
Source: [Abbie Mathew] Company [NewLANS, Inc.]
Address [238 Littleton Road, Westford, MA 01886-3531, U.S.A.]
Voice: [(617) 283-1363], E-Mail: [amathew@newlans.com]
Re: []

Abstract: [Update of activities in the channel modeling sub-group and call for participation]

Purpose: [Contribution to 802.15 TG3c in September meeting in Garden Grove]

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## Profile of Submitted Applications

<table>
<thead>
<tr>
<th>#</th>
<th>Description of Applications</th>
<th>Indoor</th>
<th>Document Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>• Gigabit Ethernet link, wireless IEEE1394, wireless USB&lt;br&gt;• Wireless home video server connected to HDTV, PC and other video devices</td>
<td>• LOS, FDD, TDD&lt;br&gt;• Data rate: 100 Mbps to 3.2 Gbps&lt;br&gt;• Range: ≤ 12 m</td>
<td>19, 98, 118, 348, 351, 653, 665</td>
</tr>
<tr>
<td>2</td>
<td>Ad-hoc meeting, heavy content download, distribution system</td>
<td>• LOS, NLOS, TDD&lt;br&gt;• Data rate: 62 Mbps, ≥ 1 Gbps&lt;br&gt;• Range: 3 m to 20 m</td>
<td>97, 155, 156, 352, 514</td>
</tr>
<tr>
<td>3</td>
<td>Small office/meeting scenario, general office applications, PowerPoint applications</td>
<td>• LOS and NLOS&lt;br&gt;• OFDM&lt;br&gt;• Data Rate: ≤ 200 Mbps&lt;br&gt;• Range: 2 to 4 m&lt;br&gt;• Space diversity</td>
<td>141</td>
</tr>
</tbody>
</table>

Source: 15-05-0353-05-003c-draft-tg3c-system-requirements
HDMI – A Success Story

Sales of HDMI Enabled CE Devices
(in millions)

Sales of HDMI Enabled DTV
(in millions)

Quantity Sales (in millions)

- PDP TV
- LCD TV
- RPTV
- CRT

- 6
- 125
- 50
- 15

2004 2005 2006 2007
Video Gaming
HDTV Resolution

<table>
<thead>
<tr>
<th>Resolution</th>
<th>PS3</th>
<th>XBox 360</th>
<th>Data Rate With TMDS (Gbps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1280 x 720p</td>
<td>✔️</td>
<td>✔️</td>
<td>0.8 to 2.3</td>
</tr>
<tr>
<td>1920 x 1080i</td>
<td>✔️</td>
<td>✔️</td>
<td>2.2</td>
</tr>
<tr>
<td>1920 x 1080p</td>
<td>✔️</td>
<td></td>
<td>2.2 to 4.5</td>
</tr>
</tbody>
</table>

Plan to incorporate Blu Ray drive

Product life cycle is 3 to 5 years