IEEE 802.11
Wireless Access Method and Physical Specification

Proposed Text for Section 7 (Layer Management)

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Submission page 1 Ennis, O'Hara, Trompower, Fisher, Kawaguchi
Background

Layer Management section:
was Section 6 (Draft 1.1), now Section 7 (Draft 1.2)

Section currently has no content

Small group volunteered at Salt Lake City meeting to work on this

Goal: develop basic framework consistent with other sections
Layer Management Entities and Service Access Points

MAC  MAC MGT  SAP

SAP

PHY  PHY MGT  SAP

STATION MGT
GET and SET Operations

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<table>
<thead>
<tr>
<th>MAC</th>
<th>MAC MIB</th>
<th>MAC MGT</th>
<th>MM_GET</th>
<th>MM_SET</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>PM_GET</td>
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<tr>
<td>PHY</td>
<td>PHY MIB</td>
<td>PHY MGT</td>
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</tbody>
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Ennis, O'Hara, Trompower, Fisher, Kawaguchi
GET/SET.REQUEST and CONFIRM

XX = PM or MM:

XX_GET.request (MIB_parameter)

XX_GET.confirm (status, MIB_parameter,
MIB_parameter_value)

XX_SET.request (MIB_parameter, MIB_parameter_value)

XX_SET.confirm (status, MIB_parameter)
Other Primitives

Everything could be represented as MIB operations

May be more natural to represent certain operations with dedicated primitives

- Example: complex operations involving multiple parameters

Different PHYs currently take different approaches
Current PHY Management Primitives (Non-MIB)

FH:

Reset, Power, SetChannel

DS:

Reset

IR:

(None)
Reset

Applicable to both MAC and PHY

MM_RESET.request:
MM_RESET.confirm

PM_RESET.request:
PM_RESET.confirm
MAC Management Non-MIB Primitives

MM_SCAN.request (scan_parameters)
MM_SCAN.confirm

MM_POWER_MGT.request (power_mgt_parameters)
MM_POWER_MGT.confirm
Summary: PHY Management SAP Primitives

PM_GET.request
PM_GET.confirm

PM_SET.request
PM_SET.confirm

PM_RESET.request
PM_RESET.confirm
Summary: MAC Management SAP Primitives

MM_GET.request
MM_GET.confirm
MM_SET.request
MM_SET.confirm
MM_RESET.request
MM_RESET.confirm
MM_SCAN.request
MM_SCAN.confirm
MM_POWER_MGT.request
MM_POWER_MGT.confirm
Motion: accept Document 11-95/118 for inclusion in the 802.11 draft.