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|-------------------------|--|-----------------------------|
| • Fo | ur different types of logical channels | |
| 1. Sy 1. 2. 3. | nchronization and broadcast channel Assist the mobile terminal in gaining access to resources of mobile telephone network. Base station may transmit an unmodulated signal or some other reference signal for assisting and accelerate the above process. Broadcast channel can provides: 1. System time. 2. Base station ID. 3. Information regarding frame timing. 4. Information regarding channel to use for requesting telephone channels. 5. Information regarding channel to use to listen for pages. | |
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|-----------------------------------|---|----------------------------------|
| BS i adju | measures received signal strength and sends istments to terminal. | |
| Dela para | ay between measurement and application is a critical ameter in closed-lop power control. | |
| • Dela 1. F s s | ay creeps into the process in a number of ways: provide reasonably accurate measurement of received signal strength, the measurement must be averaged over several symbol periods. | |
| 2. F ti | Power control adjustment must be multiplexed with outgoing ransmission which implies a processing delay. | |
| 3. 0 | Correction incurs transmission delay. | |
| 4. A le p | At receiver, as the power-control adjustments are uncoded an ass reliable, they should be averaged over several symbols, a rocess that incurs delay. | nd a |
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|--|---|
| Features of by cellular Indoor L/ – LANs of | of Indoor LANs that are not usually exhibited data networks: Ns are often formed without preplanning. same type can be overlapped. |
| Features of networks Fragment | of LANs that are common to many data |
| – Long smal | packets received from network layer are split into ler units for transmission over wireless channel. |
| All traffic acknowle | intended for a single destination requires immediate |
| User terr | ninals often have a power save mode. |

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| 4. | Reassociation |
| | 1. Each UT must <i>associate</i> itself with an access point before communication between higher layers can occur. |
| | 2. If a terminal moves, it may change its association |
| 5. | IEEE 802.11 MAC layer protocol uses a technique known as virtual carrier sense for scheduling interference-free transmissions. |
| 6. | Virtual carrier sense is a form of distributed control. |
| 7. | IEEE 802.11 provides the ability to encrypt the contents of messages. |
| 8. | Higher layer connections are maintained, although the terminal may be reassociated with another AP. |
| | |

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