

Signaling for Efficient Routing

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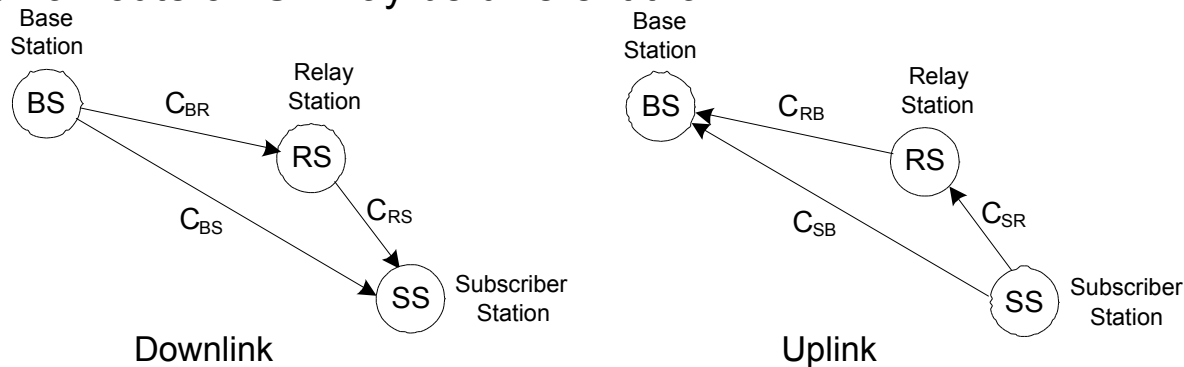
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Overview

- *Due to backward compatibility, MS will choose to attach to BS or RS based on legacy methods (e.g., preamble RSSI)*
 - These methods lead to suboptimal route selection
 - No account for the channel capacity used for the BS \leftrightarrow RS link
 - Optimal route on UL may be different than DL



- We propose messages to allow information collection and corrective action, such as:
 1. Establish the link using the legacy method
 2. Acquire/report any missing C_{xy} link quality information to the BS
 3. Let the BS figure out the 'right' path
 4. Move the SS to the right network entity on DL and/or UL

Note that existing MOB_* messages can be leveraged to assist with this process

Requires a few new messages on the BS \leftrightarrow RS link

Example

- SS linked to RS, but should be linked to BS

