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TITLE: Effective Reverse Link Data Rate Control for 1xEV-DV -r2

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ABSTRACT :	This contribution proposes the IAB concept for the effective data rate of DV reverse link
RECOMMENDATION : Review, discuss, and adopt	
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Purposes of Reverse Link Data Rate Cont

- To provide performance enhancements and symmetric with forward link
 - Effective bandwidth allocation is required
 - ✓ Based on grade of service or mobile station
 - Overshoot is not desirable
 - ✓ Fluctuation depth should be small
 - Full reverse link utilization is guaranteed
 - Based on the cell environment, quick saturation or conversio maximum capacity should be achieved
- All Performance enhancements should be provided with overhead or with minimum overhead

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Existing control schemes for Reverse Link

- Common control schemes for Reverse Link Data Rate
 - Common information from the BS is sent to all MS in the
 - A small amount of overhead is required, but dynamic and reverse link data rate control can not be provided
 - 1xEV-DO Reverse MAC operation
 - ✓ 1 bit RAB(Up and Down Reverse Activity Bit) through Forwar control channel
 - 1 bit per cell (common information for all mobile stations)
 - ✓ PV(Persistence Value) test
 - To increase or decrease the data rate, the MS performs the per based on the probability predefined from the BS and decides th to be increased or decreased
 - Dynamic and individual data rate control for each MSs are not preserved.
 - But, just 1 bit and PV are required to control RL- data rate



Existing control schemes for Reverse Link

- Dedicated Control schemes for Reverse Link Data Rate
 - Designated information from the BS is sent to each MS in
 - A large amount of overhead is required, but dynamic and reverse link data rate control can be provided
 - LGE and Airvana's proposals for 1xEV-DV
 - ✓ 2 bits RAB(Up, Down and Keep) through Forward dedicated channel
 - 2 * N bits per cell(where, N is the number of active mobiles in
 - Designated information for each mobile stations
 - ✓ PV(Persistence Value) test is not required
 - Dynamic and individual data rate control for each MSs are prov
 - But, extraordinary overheads are required to control RL- data rate

Proposed Data Rate Control of Reverse Link

- IAB(Increase Availability Bit) is proposed to provide effective reverse link data rate control
 - 1 bit indicator(IAB) to notify the status of the Mobile stati
 - The MSs in the cell send an IAB, which is set to `0', to the station to request it's reverse link data rate up
 - A concept of IAB can be applicable for both common and control scheme for reverse link data rate
- And also, a concept of RAB proposed in common and de control scheme is preserved
 - Only 1 bit IAB bit is added on the reverse link regardless link data rate control scheme(common or dedicated)
- The functionalities defined in 1xEV-DO are also preserve
 - Persistence Value and RRL(Reverse Rate Limit) message
- MARDC(Mobile Assistant Reverse link Data rate Control)

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