

The updated WWiSE proposal will continue to build on the existing and globally adopted 20MHz channel of Wi-Fi devices already in use. This approach ensures support for the existing worldwide installed base performance of Wi-Fi networks within the designated RF spectrum. Motorola's contributions to the revision enhance the pre-existing specification by improving range, reach, and robustness for the various operating

Key features of the combined WWiSE proposal include:

1. Mandatory use of the approved, pre-existing, worldwide 20 MHz Wi-Fi channel width, assuring interoperability and deployment in all regulatory jurisdictions.
2. Enhanced MIMO technology that enables a maximum data rate of 135 Mbps in the minimum mandatory single 20 MHz channel to keep implementation costs low, while greatly improving upon simple antenna bonding schemes.
3. Mandatory modes affording backwards compatibility and interoperability with existing Wi-Fi devices and bands to ensure strong support of legacy deployments.
4. Enhancements that improve robustness and range for all modes of operations and data rates.
5. Modes of operation specifically intended for mobile, battery-powered applications and devices such as smartphones.
6. Advanced forward-error-correction coding option to facilitate maximum coverage and range, applicable to various configurations and channel bandwidths.
7. Rates up to 540 Mbps, accomplished with a 4 x 4 MIMO structure and optional 40 MHz channel width (subject to regulatory bodies), provide a clear and extensible roadmap for future devices and applications.
8. Provisions for advanced features that improve data rate and range such as beam-forming and closed

"Motorola's joining with WWiSE is a strong endorsement of the fundamental technical direction adopted for the standard to improve efficiency and improve range and robustness. Their contributions enrich the proposal in a manner consistent with the goals of the standard. Jim Zyren, WWiSE spokesperson and director of marketing, wireless networking business unit, Conexant Systems, Inc., said the WWiSE proposal is now in a state that can be quickly adopted as the baseline draft standard for 802.11n.

The WWiSE proposal is one of two remaining proposals set to be considered by IEEE 802.11 Task Group 11n during the week of March 14 in Atlanta. At this session, one proposal could be selected as the baseline for the new standard. As the standard is growing for the WWiSE proposal, more companies are soon expected to join the effort and help support the standard through meetings.

WWiSE has recently updated its Intellectual Property offer for essential patents embodied in the WWiSE proposal, consistent with IEEE requirements known as RAND (Reasonable and Non-Discriminatory). WWiSE core patents are licensed under IP under RAND terms, the basic requirement for anyone wishing to participate in IEEE standards setting. Any company may join and support WWiSE so long as they adhere to the IEEE IP rights policies and procedures. The WWiSE and the updated WWiSE proposal to IEEE 802.11 TGN may be found at [www.wwise.org](http://www.wwise.org).

*Source: Texas Instruments*

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