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# New Revision of IEEE 802.16 Industrial Wireless Standard Advances Toward Ratification

*Enhancements will support the long-term growth in wireless communications demand for the Railroad Industry*

WALTHAM, Mass.--(BUSINESS WIRE)-- [Ondas Holdings Inc.](#) (Nasdaq: ONDS) ("Ondas" or the "Company"), a leading provider of private industrial wireless networks and commercial drone and automated data solutions and its wholly-owned subsidiary Ondas Networks, announced today that the new revision of the IEEE 802.16 industrial wireless open standard, 802.16t, has advanced toward formal ratification. The 802.16t standard includes critical technological contributions from Ondas Networks and is based on substantial input from a diverse group of stakeholders including the Class 1 Railroads and various railroad suppliers. Furthermore, equipment utilizing the current IEEE 802.16-2017 revision of the standard will be software upgradable to the new revision.

Ondas Networks has been working closely with its strategic partner, Siemens Mobility, the IEEE and industry partners including the Class 1 Railroads and their representatives at the AAR and MxV Rail, to advance the 802.16 standard to address railroad specific needs including support of new communications protocols to improve railroad efficiency and safety. The work within IEEE has aligned with the FCC grant to the AAR of new greenfield frequencies in the 900 MHz band in May 2020. The FCC, in its Report and Order from May 2020, stated that the new contiguous and increased bandwidth would help meet AAR's future need to enable significant railroad safety upgrades such as services for advanced defect detection, increased support for rail integrity monitoring, and continuous monitoring of highway grade crossing equipment. Another stated benefit included implementation of redundant paths for PTC backhaul, especially in remote areas and difficult terrain.

"We are proud to be helping lead the effort along with Siemens Mobility and the railroads in the advancement of the 802.16 standard to incorporate support for railroad efficiency and safety protocols," stated Eric Brock, CEO of Ondas Networks. The grant of the 900 MHz frequency from the FCC along with the work done by IEEE helps support the future needs of the rail industry such as those detailed in the March 2020 Federal Railroad Administration (FRA) [report](#), "Railroad Wireless Communications Roadmap." Mike Nolan, Vice President of Freight and Product Solutions, went on to state, "The new frequency allocation from the FCC along with the standardization process around IEEE 802.16, lays the groundwork for a new, nationwide, rail-owned, general purpose IP data network that extends a Railroads' corporate network along the right-of-way for reliable, real-time access to mission critical devices, sensors (and trains)."

## About Ondas Holdings Inc.

Ondas Holdings Inc. ("Ondas") is a leading provider of private wireless data solutions via

Ondas Networks Inc. ("Ondas Networks") and commercial drone solutions through American Robotics, Inc. ("American Robotics" or "AR") and Airobotics LTD ("Airobotics"), which we operate as a separate business unit called Ondas Autonomous Systems. Ondas Networks is a developer of proprietary, software-based wireless broadband technology for large established and emerging commercial and government markets.

Ondas Networks' standards-based (802.16s), multi-patented, software-defined radio FullMAX platform enables Mission-Critical IoT (MC-IoT) applications by overcoming the bandwidth limitations of today's legacy private licensed wireless networks. Ondas Networks' customer end markets include railroads, utilities, oil and gas, transportation, aviation (including drone operators) and government entities whose demands span a wide range of mission critical applications.

Our Ondas Autonomous Systems business unit designs, develops, and markets commercial drone solutions via the Optimus System™, the Scout System™ and the Raider™ (the "Autonomous Drone Platforms"). The Autonomous Drone Platforms are highly automated, AI-powered drone systems capable of continuous, remote operation and are marketed as "drone-in-a-box" turnkey data solution services. They are deployed for critical industrial and government applications where data and information collection and processing are required. The Autonomous Drone Platforms are typically provided to customers under a Data-as-a-Service (DaaS) business model. American Robotics and Airobotics have industry leading regulatory successes which include having the first drone system approved by the FAA for automated operation beyond-visual-line-of-sight (BVLOS) without a human operator on-site. Ondas Networks, American Robotics and Airobotics together provide users in oil & gas, rail, mining, agriculture, public safety and other critical infrastructure and government markets with improved connectivity and data collection and information processing capabilities.

For additional information on Ondas Networks and Ondas Holdings, visit [www.ondas.com](http://www.ondas.com) or follow Ondas Networks on Twitter and LinkedIn. For additional information on American Robotics, visit [www.american-robotics.com](http://www.american-robotics.com) or follow American Robotics on Twitter and LinkedIn. For additional information on Airobotics, visit [www.airoboticsdrones.com](http://www.airoboticsdrones.com) or follow Airobotics on Twitter and LinkedIn.

Information on our websites and social media platforms is not incorporated by reference in this release or in any of our filings with the U.S. Securities and Exchange Commission.

### **Forward-Looking Statements**

Statements made in this release that are not statements of historical or current facts are "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. We caution readers that forward-looking statements are predictions based on our current expectations about future events. These forward-looking statements are not guarantees of future performance and are subject to risks, uncertainties and assumptions that are difficult to predict. Our actual results, performance, or achievements could differ materially from those expressed or implied by the forward-looking statements as a result of a number of factors, including the risks discussed under the heading "Risk Factors" discussed under the caption "Item 1A. Risk Factors" in Part I of our most recent Annual Report on Form 10-K or any updates discussed under the caption "Item 1A. Risk Factors" in Part II of our Quarterly Reports on Form 10-Q and in our other filings with the SEC. We undertake no obligation to publicly update or revise any forward-looking statements, whether as a result of

new information, future events or otherwise that occur after that date, except as required by law.

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**Media for Ondas Holdings Inc.**

Reese Mozer, President

Ondas Holdings Inc.

888.350.9994 x1019

[ir@ondas.com](mailto:ir@ondas.com)

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