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Protequus® Expands Patent Portfolio to Predict Onset of Parturition in Animals

AUSTIN, TX – Protequus® announces the issuance of a supplemental utility patent (patent no. 10,154,655) by the United States Patent and Trademark Office (USPTO) for MOBILE ANIMAL SURVEILLANCE AND DISTRESS MONITORING. This is the third utility patent in less than two years for Protequus®, and enhances the growing portfolio of intellectual property (IP) behind NIGHTWATCH®, the World's first smart halter™.

NIGHTWATCH® is a revolutionary IoT-enabled device that acts as an early warning system for colic and other forms of equine distress, such as foaling and being cast. Although colic is the leading natural cause of death in horses worldwide, the majority of colic events can be easily managed if detected early. However, because horses spend a significant amount of time unsupervised each day, especially overnight, intervention is often delayed that results in poor clinical outcomes and death (~50,000 deaths/years in the US alone).

As a result of extensive research with ultra-wideband impulse radar (UWB-IR), which is used as part of the sensor suite in NIGHTWATCH®, the team of engineers at Protequus® and NRGXP® will continue to expand their research efforts to investigate the application of this low-energy radiofrequency technology to predict the onset of parturition (ie, the act of giving birth) in animals. *"We have been excited by UWB-IR technology for years, and still recognize that we have only begun to scratch the surface of its full potential for non-invasive biometric monitoring and surveillance in animals and beyond,"* says Jeffrey R. Schab, Founder & CEO of Protequus®.

About NIGHTWATCH®

NIGHTWATCH® (www.nightwatch24.com) can save a horse's life by alerting caretakers via text, phone call, and email to the early signs of equine distress so they can intervene sooner. This patented IoT-enabled device monitors real-time data on a horse's vital signs and behaviors, works across 3G/cellular and WiFi networks, offers GPS tracking, and leverages AI/machine learning to adapt to each horse over time for maximum precision and benefit. Access to real-time insight and historical information, including a horse's EDI® (equine distress index®) score, is available on-demand 24/7 from any smartphone, tablet, or computer.

The advent of NIGHTWATCH® not only has the potential to save the lives of many horses, but also revolutionize how equine insurance companies manage risk, how veterinarians practice telemedicine, and how researchers design future comparative studies.

About Protequus®

Protequus® (www.protequus.com) is an emerging biomedical engineering and data science firm in Austin, TX dedicated to equine health & safety. Founded in 2013 after the sudden loss of one of his horses to colic, Jeffrey R. Schab—an accomplished equestrian and biomedical engineer—assembled a team of passionate science & technology professionals to combat the devastating \$700 million/year impact of colic. Today, Protequus is on the fast track to success, as reported in *Forbes*, with the introduction of their early warning system for equine colic, NIGHTWATCH®.

About NRGXP

NRGXP (www.nrgxp.com) is a multi-disciplinary technology company in Rochester, NY that creates comprehensive end-to-end solutions for the IoT ecosystem. Their team of software developers, electrical engineers, mechanical engineers, and industrial designers turn client passions and ideas into commercially viable products and services.