



CYBER
AWARE PREDICT

PRODUCT SHEET

Cyber attack prediction and visualisation

OVERVIEW

CyberAware Predict is a system that can predict both future cyber attacks and the next steps of evolving attacks based on network scans, real-time monitoring and threat intelligence.

The simple web-based user interface displays comprehensive and proactive cyber attack predictions and visualisations. By using familiar military symbology, it allows analysts to convey mission-relevant information to commanders unfamiliar with the technical details of cyberspace.

An extensive database of Cyber Threat Intelligence (CTI) underpins the predictions, giving users comprehensive information on the predicted techniques, including potential mitigations and the groups and malware capable of such attacks.

CyberAware Predict can be used to help defend any network. Although designed specifically for military Cyber Protection Teams (CPTs), with adapted symbology, CyberAware Resilience could be leveraged by any private sector or government organisation.



CREDENTIALS

CyberAware Predict has been developed under funding from the Defence And Security Accelerator (DASA). In Phase 1, Riskaware developed the scan-based predictions and visuals, achieving Technology Readiness Level (TRL) 3. In Phase 2, Riskaware partnered with the University of Southampton to integrate real-time predictions and test the system in a representative military environment, achieving TRL 5.

SOFTWARE DETAIL

CyberAware Predict is a web application deployed as a set of microservices, underpinned by a database containing network scans and CTI. Designed to be integrated with existing cybersecurity platforms, it can be deployed on a single computer or distributed across a network to provide a robust platform for monitoring multi-site infrastructure.

Predictions are built on network scans and augmented with additional data, such as mission criticality and the locations of offensive and defensive units.

Using vulnerability feeds, the system determines network weaknesses and predicts attack techniques using attack pattern data. The predicted attacks are then rendered along with potential mitigations as tactical task graphics, enabling analysts to quickly assess their cyber defences.

Empowered by these predictions and the built-in knowledgebase, cyber analysts can determine and prevent future cyber attacks before they happen.

FEATURES

Intuitive web-based user interface with MIL-STD-2525 / APP-6 extended graphics

Single instance or active-active MongoDB architecture for standalone or distributed deployment

Connects to TAXII servers for Intrusion Detection System (IDS) alerts

Network weaknesses mapped using National Vulnerability Database (NVD) feeds

Predictions underpinned by Common Attack Pattern Enumeration and Classification (CAPEC) and MITRE ATT&CK framework datasets

BENEFITS

Predict future cyber attacks and the next steps of evolving attacks in advance

Receive automatic alerts and predictions as soon as attacks are detected

Network weaknesses are determined from network scans, providing integration with existing tools

The simple user interface is tailored for a range of defence users and technical levels

Consultancy and integration support is available from our expert team

ABOUT RISKWARE

Riskaware is a leading incident modelling solutions provider. With over 20 years' experience working with global government departments and science-led R&D partners, we deliver actionable insight on environmental, human and security challenges worldwide. Our scalable incident modelling platform solutions offer superior situational awareness and critical decision support to government and commercial organisations.

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