⬛ TEKGEM
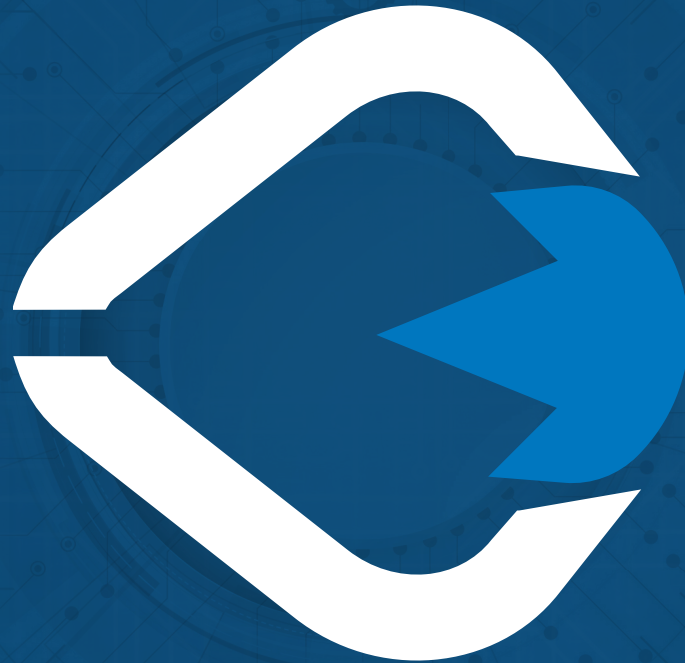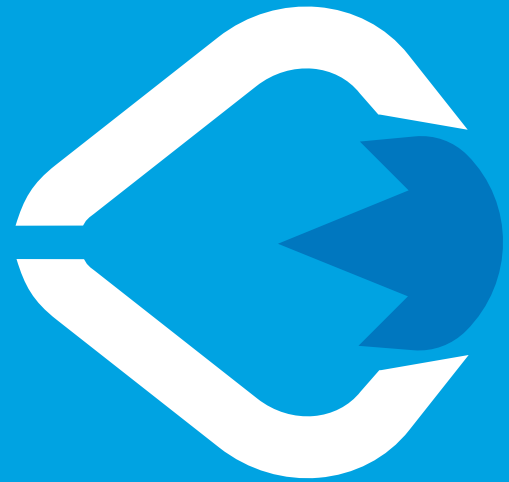
UNITY

MONITORING
CYBER SECURITY

WHAT IS UNITY?

Unity is a real time asset and vulnerability management platform that automatically discovers network connected devices and assesses their cyber security risk.

The physical on-site vulnerability and risk assessment provided by Tekgem are incredibly valuable to understand and assess your current risk, but what happens after Tekgem leave? Your environment is not static, you need to make changes, and as soon as you do there is the potential to introduce attack vectors.

Unity is always on, passively listening to discover new devices. One discovered, Unity uses an endpoints native communication protocols to collect security and configuration data to identify vulnerabilities.

Unity's risk profile is based on assessing a set of established best practice cyber security metrics. These are used to provide essential monitoring of common key vulnerabilities to help protect your key systems and networks.

A **SOLID** FOUNDATION

We believe in the approach 'get the basics right and build on a solid foundation.'

Many systems are exploited because basic device configuration remains insecure. Visibility and manageability by those who need to know is difficult, this is understandable, some systems have hundreds of devices with each having hundreds of settings. Staying up to date across all of this information on a daily basis as devices are added and updated is a huge challenge.

The risk profile provides the visual insight needed to help keep your systems secure. It also acts as a starting point and foundation that all organisations should be familiar with and in control of. It's designed to help protect your organisation against a whole range of the most common attacks.

When Unity identifies vulnerabilities, it doesn't just tell you that you are insecure, it also provides detailed recommended steps to fix or mitigate them to protect against threats. For vulnerability management, this is a huge time saver.

VISUALISE POTENTIAL GAPS IN **REAL TIME**

Unity uses a series of dash-boarded KPI's to demonstrate your level of control and ongoing improvements in your cyber journey. View your data by vulnerability type or by device, allowing you to prioritise critical machines first.

Automated data collection from end point devices at a frequency of your choice ensures you have up to date information at the click of a button and a vulnerability assessment 24/7.

Unity automatically creates a device inventory of everything attached to your industrial network, and continually monitors for new devices being added, updated or removed. Alerts are sent for all newly discovered devices, so you are fully aware of any changes across your networks.

We utilise vendor supported data collection technology. No software in installed onto any endpoint device. This maintains full vendor support across all of your critical infrastructure.

FEATURE LIST

- Real time risk dashboard
- Vulnerability breakdown with criticality rating
- Security over time tracked
- Automated device inventory
- Automated software inventory for Microsoft devices

- Passive device discovery, native data collection
- Import of standalone devices
- Add devices manually
- Exceptions register
- Real time system health status
- Device alerts

HOW DOES IT WORK?

Unity consists of two elements:

UNITY - a central aggregation and visualisation tool
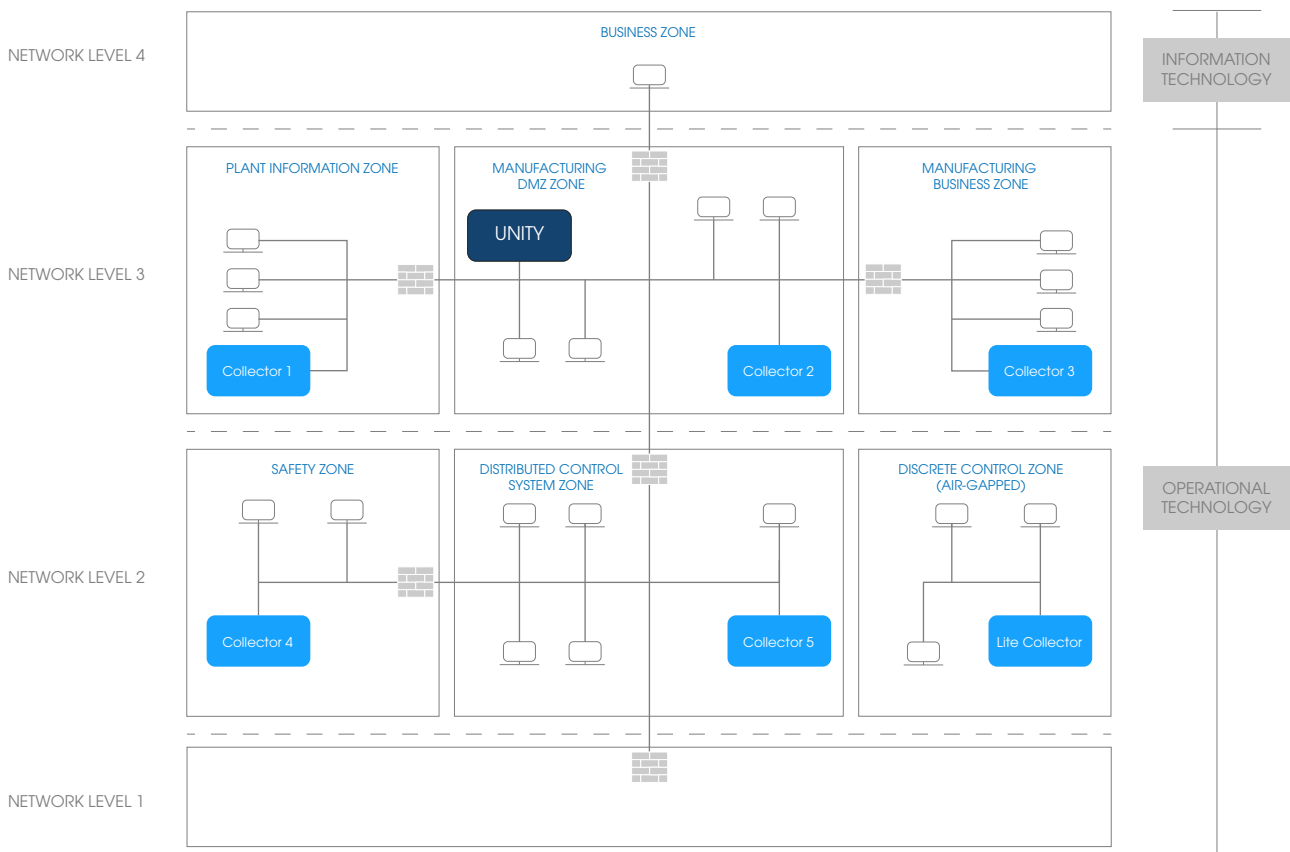
Collectors - data gatherers.

1. Collectors passively listen on your networks to discover new devices.

2. If enabled, the collector initiates a request for information from each device it is configured to communicate with.

3. The devices respond with the required information.

4. The Collector sends the information to Unity at a set interval.

5. Unity aggregates the data from all Collectors and presents it to you via the dashboard metrics.

A 'Collector' must be installed within each of your security zones to ensure maximum network coverage.

The Collector can run as a physical appliance or on a virtual machine within the required security zone so is never installed onto any control system directly.

The Collector is configured to gather information from all systems within its security zone.

SYSTEM TOPOLOGY DIAGRAM

NETWORK LEVEL 4

BUSINESS ZONE

INFORMATION TECHNOLOGY

NETWORK LEVEL 3

PLANT INFORMATION ZONE

MANUFACTURING DMZ ZONE

UNITY

MANUFACTURING BUSINESS ZONE

Collector 1

Collector 2

Collector 3

NETWORK LEVEL 2

SAFETY ZONE

DISTRIBUTED CONTROL SYSTEM ZONE

DISCRETE CONTROL ZONE (AIR-GAPPED)

OPERATIONAL TECHNOLOGY

Collector 4

Collector 5

Lite Collector

NETWORK LEVEL 1

WHO IS IT FOR?

Unity was developed from the need to protect sensitive critical infrastructure and everything within it's design has been built to do just that right from the ground up.

Many organisations are required by law to demonstrate they are managing their cyber security effectively. Unity has particular benefits in this area, allowing you to demonstrate how your organisation has made improvements over time, showing you know and understand all the devices within your environment, and being able to demonstrate you are in control.

It can be used in any industry across any network. Unity sits on your networks to help you visualise your level of risk. If you have operational technology, then Unity will work for you 24/7.

Any organisations without direct internet access to their network for security or logistical reasons will still benefit.

Just because a network or device is not directly connected to the internet does not give it automatic protection. Any external device whether it's removable media, a third party laptop or a vendor supplied system has the potential to introduce an attack vector.

Unity takes air-gapped systems into account and offers a mechanism to ensure they are just as protected as all other parts of your network.

REAL TIME

MONITORING
24/7

ARRANGE A PERSONAL DEMO

Find out how Unity can help you:

· Gain visibility of your assets

· Understand potential vulnerabilities in real time

· Demonstrate an improvement in your cyber security

· Demonstrate your commitment to cyber security

We can provide remote demonstrations or on-premise depending on your needs and availability.

We will walk you through the platform step by step.

Get in touch with us to learn more: enquiries@tekgem.co.uk

SHORT ON TIME? WATCH ON OUR WEBSITE

Vist https://www.tekgem.co.uk/tekgem-unity/

ISO 9001   ISO 14001   ISO 27001   ISO 45001

enquiries@tekgem.co.uk

GRC   **LOOP**   **TEKGEM**   **UNITY**   **SHIELD**

www.tekgem.co.uk

NORTH EAST BUSINESS AWARDS WINNER 2020

NEPIC SMALL BUSINESS OF THE YEAR WINNER 2020

TEKGEM
BRIDGING THE GAP BETWEEN IT & OT