

 **TEKGEM**

**UNITY**



**MONITORING  
CYBER SECURITY**



# WHAT IS UNITY?

Unity is a real time cyber security platform designed to complement and work alongside our physical health check and risk assessment.

The health checks and risk assessment services provided by Tekgem are incredibly valuable to assess your environments 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, and always checking the status of connected devices. If any device becomes insecure the industry standard security profile will flag it for attention immediately.

Unity's risk profile is based on the original Cyber Essentials, however we have also included additional industry best practices, using it to provide essential monitoring of key vulnerabilities to help protect your network.



## WHY CYBER ESSENTIALS?

Cyber Essentials is the 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.

By getting the basics right and ensuring you are fully compliant against that, you can move into true defence in depth with your security, increasing your protection further.



## VISUALISE POTENTIAL CYBER SECURITY GAPS IN **REAL TIME**

Unity uses dash-boarded KPI's to demonstrate your level of security and ongoing improvements in cyber posture.

Automated data collection from end point devices at a frequency of your choice ensures you have a vulnerability assessment 24/7.

Unity automatically creates an asset register of all Windows devices attached to your industrial network.

We utilise vendor supported data collection technology. There is no need to install any additional hardware. No software is installed directly onto any control system.

We use internationally recognised cyber security frameworks and standards to ensure you can demonstrate you are in control.

## FEATURE LIST

- Real time vulnerability assessment dashboard based on the UK NCSC Cyber Essentials risk profile
- Vulnerability breakdown with criticality rating
- Security over time tracked
- Live threat feed
- Automated device inventory based on industry best practice
- Exceptions register
- Real time system health status
- User configurable locations, network levels, security zones, and criticality classification

# HOW DOES IT WORK?

Unity consists of two elements: UNITY - a central aggregation and visualisation tool, and Collectors - data gatherers.

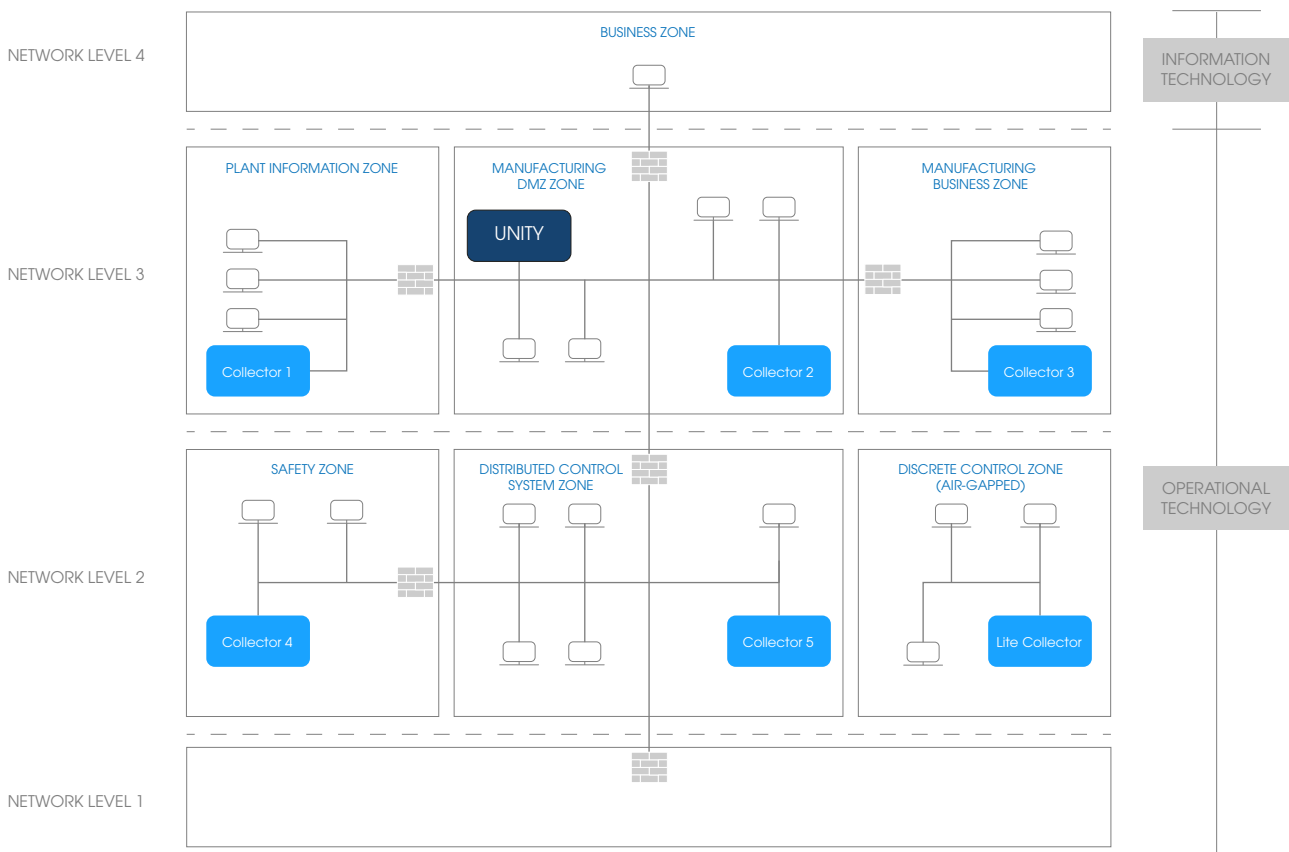
A 'Collector' is installed within each of your security zones to ensure maximum network coverage.

The Collector runs on a virtual server within that zone so is never installed onto any control system directly.

The Collector is designed to gather information from all systems within its security zone and pass it to Unity which aggregates the data and presents it to you via the dashboard.



## SYSTEM TOPOLOGY DIAGRAM



# WHO IS IT FOR?

Unity was born from the need to protect operational technology (OT) and critical infrastructure and has been designed to do that from the ground up.

The regulated Process Industry (COMAH, NIS) are required by law to demonstrate they are managing their cyber security. Unity has particular benefits in this area, allowing you to demonstrate how your organisation has made improvements over time. As Unity is an extension of our existing services that are designed to support organisations its a perfect fit.

Any organisations without direct internet access on their network for security or logistical reasons will still benefit from Unity. Just because a network 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.

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



# UNITY SECURITY

Unity has been designed from the ground up with security at its heart.

There are multiple mechanisms built-in to ensure your data is handled appropriately, and authentication is required at all levels.

Unity uses an SSL certificate to secure its application interface, this ensures all requests and responses are encrypted.

Data passed to UNITY is encrypted during transit and then stored in a secure database.

All API endpoints are secured with JWT bearer authentication and are rate limited to prevent DDOS attacks on the platform.

Between the end user and UNITY we also use Windows authentication to ensure only authorised people can log into the system.



# COLLECTOR SECURITY

Windows authentication is used via a set of valid credentials configured on each Collector. The credentials are used when collecting data, so you are in complete control over which systems Unity has access to.

When data is collected it is immediately encrypted by the Collector and sent directly to UNITY in encrypted form.

The Collector generates a token which is attached to the collected data, this is verified by UNITY when it is received ensuring the data is from a valid source and has not been intercepted or manipulated.



# ARRANGE A PERSONAL DEMO

Find out how Unity can help you:

- Gain visibility over your OT assets
- Understand potential vulnerabilities in real time
- Demonstrate an improvement in OT 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](mailto:enquiries@tekgem.co.uk)



## SHORT ON TIME? WATCH ON OUR WEBSITE

We have an overview of some of Unity's core features on our website.

Visit <https://www.tekgem.co.uk>



# CONTACT US

[enquiries@tekgem.co.uk](mailto:enquiries@tekgem.co.uk)

[www.tekgem.co.uk](http://www.tekgem.co.uk)

## REAL TIME



## MONITORING

# 24/7



NORTH EAST BUSINESS AWARDS WINNER 2020



NEPIC SMALL BUSINESS OF THE YEAR WINNER 2020



**TEKGEM**

BRIDGING THE GAP BETWEEN IT & OT