



# Adroit 10 SCADA

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# Introduction

## Adroit 10 SCADA/HMI

The Adroit 10 SCADA is the latest product offering from Adroit Technologies. It is at the forefront of the SCADA/HMI market and is one of the most open, advanced, and scalable SCADA platforms available. The Adroit 10 SCADA is a real-time data acquisition and reporting software product that is not limited to industrial automation but is extensively used in mining and mineral processing building and facilities management, water management, network management, manufacturing, food and beverage, chemical, healthcare and IoT markets.

**Adroit 10 SCADA reduces the cost of ownership, improves quality, increases productivity and profits.**

## Key features and benefits



## X86 and X64 Architectures

Adroit 10 SCADA is available as a true 64-bit product designed to take full advantage of the 64-bit Windows OS's available resources. It can utilise the full 250GB RAM allocation making it ideal for large SCADA projects.



# Object Model and Context View

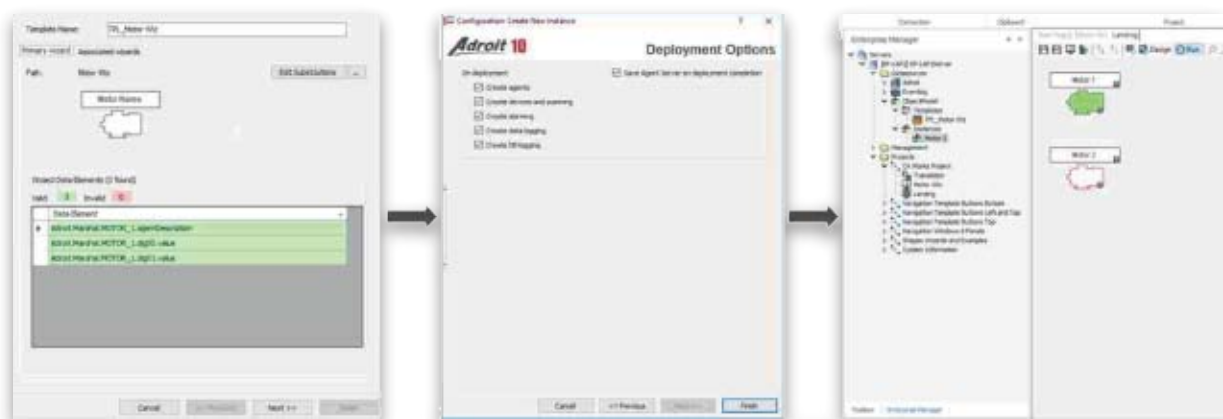
## Object Model - Adroit 10 SCADA saves engineering time

The Adroit 10 SCADA Object Model is the newest addition to Adroit SCADA. The user can create reusable standardised object templates in the Adroit SCADA to represent equipment items such as pumps, valves, conveyors, blowers, then duplicate these standard objects as an instance when creating projects which reduce engineering time.

Each instance inherits all the standardised object template configuration settings. These include scanning, logging, alarming, and any context built into the original object template so that the entire tag database can be generated while configuring the graphics. Adroit 10 is now available as a true 64-bit product designed to take full advantage of the 64-bit Windows OS's available resources. It can utilise the total 250GB RAM allocation making it ideal for large SCADA projects.

**The Adroit 10 Object Model leads to higher quality, lower engineering costs, easier and better management of projects.**

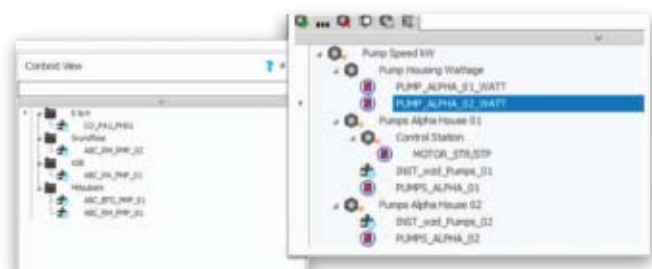
Takes reusability and ease-of-engineering and maintenance to the next level.



## Context View - Adroit 10 allows easy access to equipment from multiple views

By adding relevant context to each Object template, allows the user to take advantage of the new Context View in either the Adroit SCADA Designer or the Operator. Examples of this include grouping equipment by Equipment Type, Manufacturer, Energy Rating, Voltage, and any other detail important for being able to monitor and manage.

Using keywords to classify your existing equipment objects allows users to search and manage similar pieces of equipment.



# Adroit 10 New Look and Feel

## Optimised PLC Network Communication

By introducing the NASA driver (New Adroit Scanning Architecture) into Adroit 10, it is now possible to decide what needs to be scanned and when. If you are not viewing, alarming, logging, or trending a tag, then why scan it? Demand scanning of tags reduces the scanning network traffic considerably.

The Adroit 10 SCADA can be used in even larger and remote projects.

## Improved Performance Monitoring

NASA drivers provide support for up to 16 new counters that are common amongst all NASA drivers to facilitate their improved debugging and analysis.

## Demand Scanning

Demand scanning of tags reduces the PLC network communications load significantly. Tags are only communicated when subscribed to and needed in the SCADA.

Optimisation



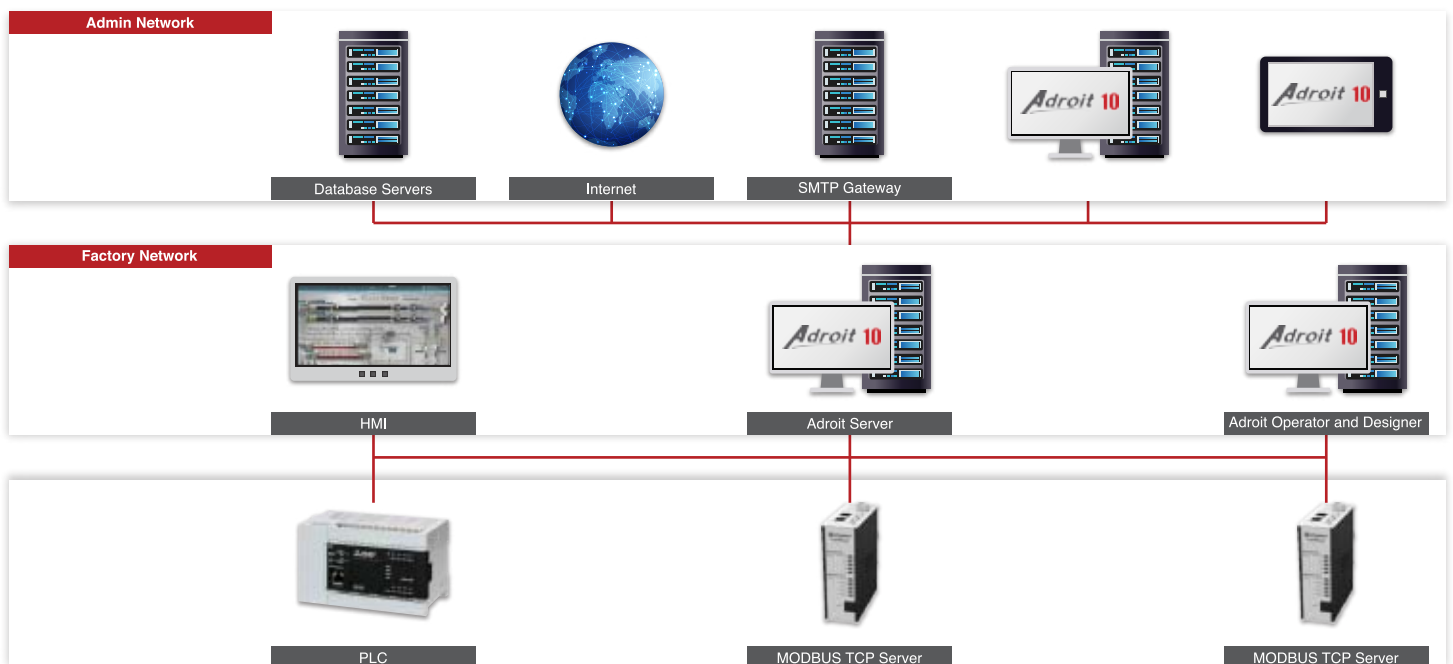
Multiple - channel support



Demand scanning



Reusability



## User Interface Enhancements - Adroit 10 has a new look and feel

The SCADA Utility Launcher in Adroit 10 Offers better utility management and provides a central location from which each of the installed SCADA utilities can be accessed and run. Each product icon in Adroit 10 has been revised, updated, standardised, and is classified using different colored vertical bars on the left-hand side of each icon.

# Adroit 10 New Look and Feel

## Enhanced Design Interface

Adroit 10 has a simplified design interface including a utility manager tool to launch the different Adroit 10 utilities.

- New Vectors – Checkbox, Dropdown, Slider, Pipe with flanges, etc
- Vector Usability - easier to configure
- New SCADA Ribbon Page
- Toolbox Enhancements
- New Property Grid Search functionality
- Charting Usability - easier to configure
- Toast Notifications
- New Classification of Agents
- Enhanced backup feature
- Enhanced Find and Replace

## Enhanced Design Interface

Situational awareness or situation awareness (SA) is the perception of environmental elements and events with respect to time or space, the comprehension of their meaning, and the projection of their future status.



## Adroit Utilities and Enhanced Controls

Adroit Utilities has been added to provide a central location from which the installed utilities can be launched, instead of installing a host of separate shortcuts for each utility.

- AlarmViewer control
- TrendConfigurator control
- WebBrowser control
- Charting control



# Industrial Internet of Things

## Industrial Internet of Things (IoT) - Adroit 10 is ready

The Adroit 10 SCADA Software is ready for any IoT project, whether you host your Adroit SCADA in the cloud or on your site. Provided your infrastructure supports PLC remote access using TCP/IP Adroit will work in the cloud. In addition, our M2M protocol supported on the Mitsubishi range of PLC's allows remote communication to machines running these PLC's. In addition, Adroit 10 has built-in support for Industry standard IoT protocols such as MQTT, OPCUA, and Sigfox. In addition Adroit 10 can act as your gateway from your control system.

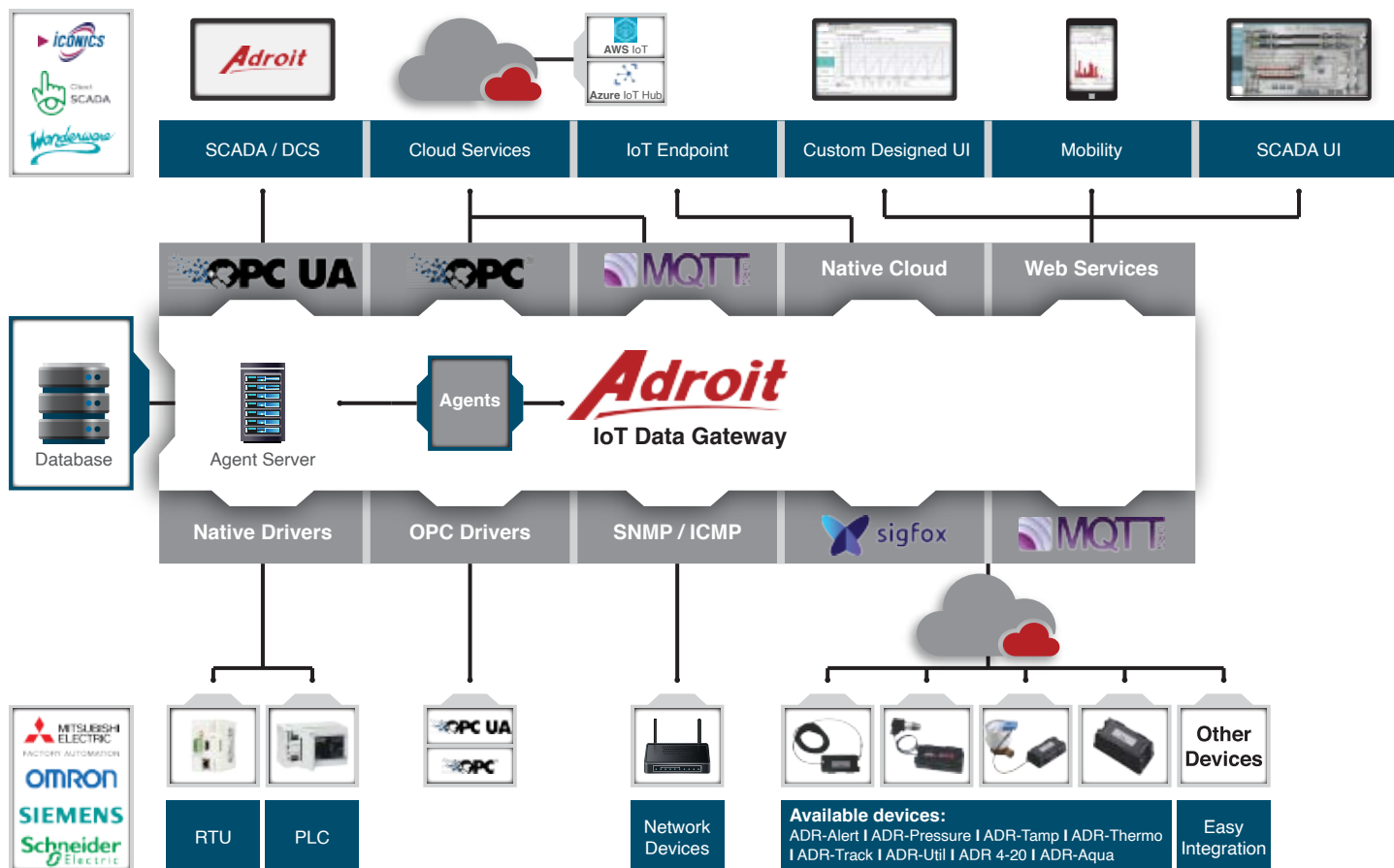
**Adroit 10 is IoT and Industry 4.0 ready, offering a reliable and flexible IoT platform, ready to meet any IIoT project demands.**

## Most Devices Supported by Adroit 10

With over 100 native drivers Adroit 10 supports the most commonly used PLC's and RTU's including Mitsubishi Electric, Omron, Modbus, Siemens, Allen Bradley, and OPC.



The Adroit 10 SCADA Software is ready for any IoT project, whether you host your Adroit SCADA in the cloud or on your site. This software supports the use of multiple PLCs or embedded devices (running Linux), matching your budget and business needs.



Smart and Simple Adroit Software

# Performance Anywhere

## Performance Anywhere - Adroit 10 goes Mobile

Users demand mobility, allowing them to have the ability to use their smart devices to monitor process and production on the go, in the factory, or on a mobile device.

The new Adroit 10 Performance Anywhere client has a built-in HTML5 code, making the platform-independent and mobile-friendly. Users can take advantage of many different controls to quickly create mobile reports including graphs, gauges, alarm lists, analog displays, buttons, and updated screens of the plant. It uses Windows Security, which allows users with the correct credentials to change set points or stop and start the plant from their mobile device or any Internet Browser. Very useful for displaying plant performance within an organisation or to monitor your plant on the go.

The Performance Anywhere client can be configured to run internally or externally using Wi-Fi or the Internet, giving you access to your plant anywhere and anytime.

## Mobility - build your own webpages



## ICMP Agent - Adroit 10 identifies problems timeously

The addition of the ICMP (Internet Control Message Protocol) and SNMP (Simple Network Management Protocol) to Adroit 10 makes it easier to find problematic areas within the control network. Mapping your network within an ICMP Agent will give you early warnings of possible network problems within your plant.

## Network Management

The ICMP (Internet Control Message Protocol) Agent has been added to allow users to easily identify and troubleshoot network problems – more uptime and fewer callouts.

## Talk To Us

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