Contents

Introduction ........................................................................................................................................3
  • Adroit SCADA ............................................................................................................................3
ADROIT Report Suite 1.3.0 Release Notes .....................................................................................4
Product Version ..............................................................................................................................4
  • Release Notes ............................................................................................................................4
  • Contents ....................................................................................................................................4
System Requirements ....................................................................................................................5
  • Software ....................................................................................................................................5
  • Operating Systems ...................................................................................................................5
Reference Documents ....................................................................................................................5
  • New Features ............................................................................................................................6
New Reports and Update Scripts ....................................................................................................6
New Report Packs ..........................................................................................................................6
  • OEE Report Pack 1.0.0.0 ...........................................................................................................6
  • EMS Report Pack 2.1.0.0 ............................................................................................................7
UPGRADE STEPS ..........................................................................................................................8
  • 1.1 Install Adroit Report Deployment Utility version 1.3.0 .......................................................8
  • Install new report packs ............................................................................................................10
  • 1.2 Configure/Upgrade Report Suite Data Sources ................................................................11
  • 1.3 Deploy new Report Packs ................................................................................................12
  • 1.4 Run SQL Update Scripts ..................................................................................................12
  • 1.5 Test Reports .......................................................................................................................13
  • Delete Adroit Report Suite Folder(s) in Reporting Services Manager .....................................13
TECHNICAL SUPPORT DETAIL ..................................................................................................14
Introduction

The Adroit Report Suite is a value-add information system based on specific Adroit agent data logged to an OLE DB database. Information is presented in the form of web based reporting through the Microsoft SQL Server Reporting Services platform. The technology is distributed as a free add-on solution to Adroit SCADA.

The suite consists of report packs and a Report Deployment Utility. Each report pack includes a set of reports specifically designed to report relevant and accurate information on the Adroit system and specific Adroit agents.

This document provides a basic introduction to Adroit Technologies and the Adroit Report Suite value-add system, with a brief overview of the Adroit SCADA software package for the purpose of convenience and reference.

Adroit SCADA

Adroit is an acronym for "Advanced Distributed Real-time Object-oriented Intelligent Toolkit".

Adroit is a Windows-based SCADA/HMI software product that has been developed over a period of more than ten years by dedicated professionals. Robust and flexible enough for the toughest industrial application, Adroit is the ideal platform from which to meet the information needs of a modern control solution. Adroit is a technologically advanced SCADA (Supervisory Control & Data Acquisition) system designed for process control, manufacturing systems and open automation applications.

Developed specifically for Windows operating systems, Adroit has a flexible object-oriented client-server architecture that supports from a standalone implementation to an installation spanning multiple sites.
ADROIT Report Suite 1.3.0 Release Notes

The Adroit Report Suite is a value-add information system based on specific Adroit agent data logged to an OLE DB database. Information is presented in the form of web based reporting through the Microsoft SQL Server Reporting Services platform. The technology is distributed as a free add-on solution to Adroit SCADA.

This is an update to the Adroit Report suite 1.2.2

Product Version

- Adroit Report Suite version 1.3.0

Release Notes

- February 2018

Contents

- Adroit Deployment Utility 1.3.0
- Adroit Reports Pack 2.0.0
- Alarm Management Reports Pack 2.1.2
- SCADA Intelligence Standard reports Pack 1.2.0
- EMS Report Pack 2.1.0
- OEE Report Pack 1.1.0
System Requirements

Software

- Adroit version 10 or later
  
  **Note** the report suite is in function backward compatible with Adroit version 8.4 although certain report packs have reports included based on new agents available only in Adroit version 10. It is an option on deployment to simply omit these reports.
  
  **Note** Adroit Reports require DBLog agent version 8.3.1.36 on Adroit version 7.0.11.0 or later.

- Microsoft SQL 2014 Express with Advanced Services
  
  **Note** See SCADA intelligence Requirements for SCADA intelligence pack

- Internet Explorer 10 or later recommended.

Operating Systems

- Windows 7 Professional
- Windows Server 2008 R2 SP2
- Windows 8 or 8.1 Professional
- Windows Server 2014 R2
- Windows 10 Professional

Reference Documents

- Report Suite User Manual – Adroit Reports
New Features

New Reports and Update Scripts

1. Adroit Report Pack 1.2.1
   - Agent Configuration Export based on DumpConfig and DBLog agents - This report displays Agent instance configurations, including predefined or custom agent slots that are logged on an enabled DumpConfig or DBLog Agents. In the event of a configured DumpConfig agent, the user can specify the agent types, instances and slots to export to the database. This export process is triggered by a manual input or interval schedule.
     
     *Note: **DumpConfig exports take preference over the Dblog agent details, as more information is available.*

     For more information on DumpConfig and DBLog, visit Adroit help

   - Adroit Report Pack Update Script 1.2.1 - Update Script Enables report suite to determine data retrieval for the Agent Configuration export report (Verify DumpConfig and Dblog tables structure)

   - SMART UI Audit Activity (21 CFR Part 11) - This report displays Data Elements (Tags) that are audited for writes changes and logged to a secondary SQL Express Database (by default incidents are logged to a SQL Compact database).

   - SMART UI Authorization Detail (21 CFR Part 11) - This report views the list of all the authorized writes changes and the authorizer.

     For more information on SMART UI Auditing (21 CFR Part 11) visit Adroit help.

2. Alarm Management 2.2.0

   - Interrupt Reasons – Analysis all events based on a specific Alarm type descriptor and their associated reasons for the said interrupted state
   - Interrupt Details – Referenced as a drill through detail report for Interrupt Reasons, the report lists individual incidents with reasons based on report filters

     For more information Please refer to the Adroit Report Suite – Alarm Management User Manual

New Report Packs

OEE Report Pack 1.1.0.0

Overall Equipment Effectiveness (OEE) is a measurement of how effectively a single piece of equipment, a process or even how an entire factory is being utilised.

OEE is percentage determined by the cumulative impact of the following three factors

- **Availability**: is the percentage of the actual running time of the monitored equipment and/or factory. Therefore, this factor is decreased by the activities that cause unplanned downtime.
- **Performance**: is the percentage of how often the monitored equipment and/or factory performs at optimum speed. So this factor is decreased by the all the factors preventing the equipment and/or factory from running at optimal speed.

- **Quality**: is the percentage of good quality items produced by the monitored equipment and/or factory. Therefore, this factor is decreased by the amount of produced waste or bad quality and scrapped items.

\[
\text{OEE}\% = \text{Availability}\% \times \text{Performance}\% \times \text{Quality}\%
\]

This OEE percentage takes into account all losses in downtime, speed and quality and can therefore be used for analysis and benchmarking.

**The OEE report pack is based on the latest OEE agent in Adroit version 8.4 or later**

OEE agent Revision 8.4.2.27

For more information please refer to the Adroit OEE help

The OEE pack consists of three reports namely:

- OEE Transaction
- OEE Dashboard
- OEE Summary
- KPI Summary


**EMS Report Pack 2.5.0.0**

This serves as management information of each recorded incident for the purpose of managing device statuses, track recorded incidents and audit overall system performance.

The EMS Pack consists of ten reports namely:

- Audit Summary
- Incident Duration
- Incident Count
- Sensor Configuration
- Fire Detection Configuration
- Unauthorized Blasting
- Export Incident Duration
- Export Incident Count
- Digital Configuration
- Datalog Configuration

For more Information, please refer to the Adroit Report Suite – EMS User Manual
1.1 Upgrade Steps

Install Adroit Report Deployment Utility version 1.3.0

The Adroit installation provides the user options to install the Report Suite.

- Run Setup.

- Run Adroit Report Suite setup. Follow the install procedure prompts.
• Run Adroit Report Deployment Utility setup. Follow the install procedure prompts.
Install new report packs

- Follow the install procedure prompts.

The Adroit Report Suite installation provides the user options to install available report packs. Installing the report pack simply copies them into the `Program Files` directory. The installer opens a folder containing available report packs.

- Click on the relevant report pack to install.

Note** - SCADA Intelligence report pack will not work on SQL Server express editions.

- Run Report Pack setup.
- Follow the install procedure prompts.
1.2 Configure/Upgrade Report Suite Data Sources


Follow the following steps:

- Open the Deployment Utility and connect to the Report Server Web Service URL
- Open the Help Tab and run the DB Wizard

**Note: Set both data source connections**
1.3 Deploy new Report Packs

1. On the Main tab go to the Packages button.
2. Select the report to deploy. Menu
3. Under “Deployment options”; set the “Overwrite Resources and Overwrite Reports”.
4. Continue to Deploy and specify the data source(s) (by default the data source points to a Demo data source)

The Deployment Utility will deploy the relevant report packs.

1.4 Run SQL Update Scripts

- On the Main tab go to the SQL Update Scripts
- Select the Script and Run Update Scripts Button
- Select the database to run the scripts against

Note** - In the case of SCADA Intelligence report scripts the name gives a hint of the target database i.e. a script name containing “_DW” should be run against a Data warehouse database and “_ODS” against an ODS database.
1.5 Test Reports

- Test reports starting from the Report Suite Switchboard/Menu, click each pack tab. While testing pay attention to error messages typically those pointing out missing scripts or incompatible SCADA versions in which case one may need to upgrade the SCADA or rerun scripts.

Delete Adroit Report Suite Folder(s) in Reporting Services Manager

Deploying Adroit Report Suite 1.3.0 report packs leaves two redundant folders namely General and Adroit Audit, which may be deleted at the user’s discretion.

Note* - Delete only when these folder do not contain custom reports.

Open Internet Explorer and connect to the Reporting Services Report Manager using the following URL - (Http://MachineName/Reports_Instance). For information on how to find your Reporting Services URL, please refer to the Report Suite User Manual.

Once the Report Manager is open, follow the following steps:

- Click to open Adroit Report Suite folder then change the Report Manager view from Tile view to Details view by clicking on the “Details View” button.

- Tick the checkbox and click the delete button.
TECHNICAL SUPPORT DETAIL

For further support, contact our Technical Support Desk on 011-658-8100 or email support@adroit.co.za. You can also visit our website, follow us on Twitter, find us on Facebook or connect with us on LinkedIn.