

System Overview

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1 System Overview

1.1 Overview

The system consists of several key areas:

1.1.1 Database

This currently is configured for all installation on a SQL Server DB. Within the database we have several tables and a series of stored procedures to access and manipulate data. The stored procedures are called from the data access layer, no SQL is manually executed from here.

1.1.2 Data Access Layer

This is sometimes referred to as the server. In reality this is a series of C# classes that represent the database tables as objects and allow interaction with the stored procedures. Some business logic is executed here in, moving forward more business logic should be included in here.

1.1.3 Web Services

The webservices are .Net asmx services. These act as both SOAP and Restful webservices and are accessible through a standardised URL. There are two sets of service:

- Calidus_ePOD.asmx

This is used exclusively by the PDA Clients for communications with the server.

- DataServices

These are a set of services that allow clients to import data and request the export of data from the system

1.1.4 Web Application

The web application provides a graphical user interface allows users to access and modify data within the database. This utilises ASP.Net, C# (for the code behind), CSS and Javascript (jQuery and jQuery UI).

1.1.5 ePOD Manager

This windows application is still in the beta phases and has not been released. The purpose of this application is to allow administrative tasks such as archiving and clear downs to be run separately from the Web Application.

1.1.6 ePOD AutoExport

This is a windows application that uses the data access layer to retrieve all records marked for export or POD emailing, and will process these records sending either XML data of jobs or loads via soap, post, or email, or POD html or PDF via email.

1.1.7 PDA Client

The PDA client is used by drivers. This allows drivers to download their current workload, and complete/cancel any jobs assigned to it. The PDA has it's own local SQL Server Compact database which mirrors a subset of the data held in the main server database. All communications are performed via SOAP calls to the Calidus_ePOD.asmx update. There are two flavours of the ePOD PDA: Android and Windows Mobile 6.5.

