



This documentation describes a project at the *Protonweg in Utrecht*.

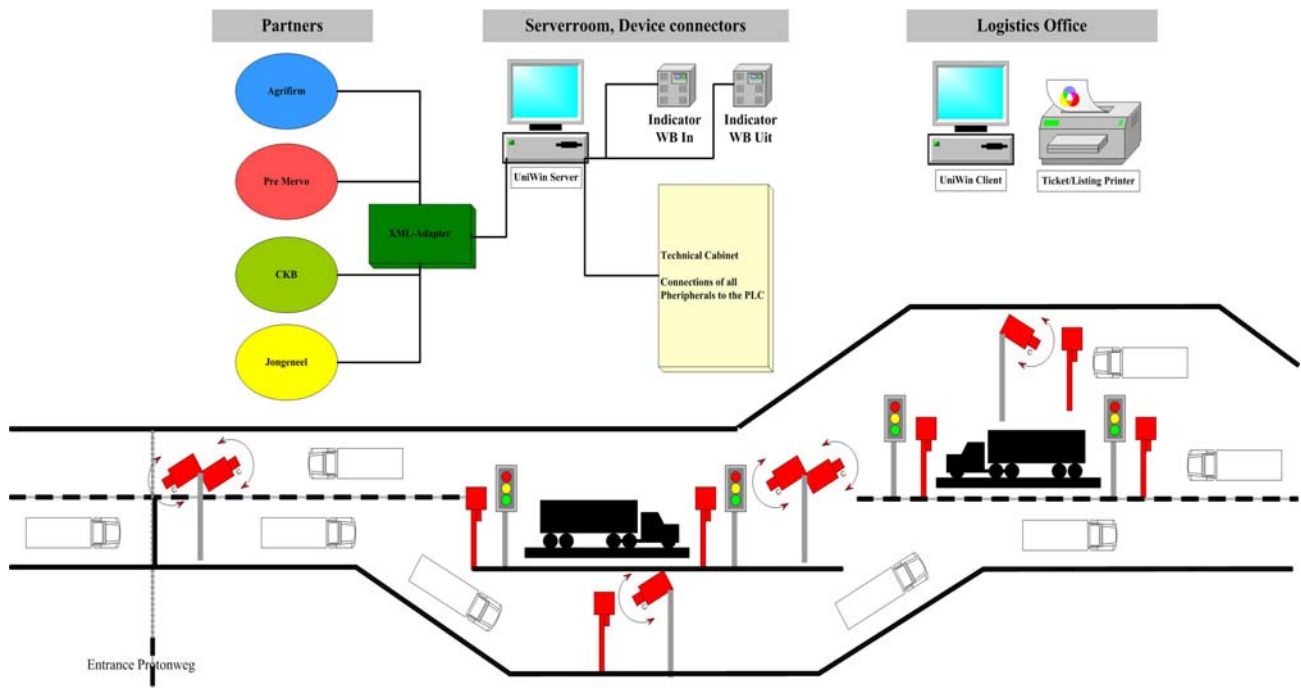
UniWin is used to manage all logistic activities concerning;

- Weighing and registering of all incoming and outgoing vehicles, based on automatic numberplate recognising.
 - Data-Exchange via an XML-interface, with all involved partners of the Protonweg (Jongeneel, Agrifirm, Pre Mervo and CKB).
 - Connection towards all peripherals (entrygate, bypasses, barriers, trafficlights, positioning beams) with the use of a PLC. As well as an extensive logging of this connection.
 - Automatic email-messages on different subjects, such as weighings, failures, etc.
- At the backside of this document, you will find an extensive description of this project.

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Description:

The image as shown above, provides a clear picture of the complete process.

- All partners distribute their transport/vehicle details to UniWin, using the XML-interface.
- UniWin stores these details in a transport-table and a vehicle-table.

The process is as follows:

- Outside office hours the entry gate is closed. Only for recognised vehicles from the vehicle-table, UniWin opens the entry gate.
- In any case the vehicle arrives at the incoming weighbridge.
- In front of the weighbridge a detection-loop is activated. This triggers a zero-command.
- After zeroing the barrier opens (light goes green) and the vehicle drives onto the weighbridge.
- During this process, the numberplate is recognised.
- UniWin searches the correct transport and at a stable moment, the weighing is executed.
- After that, the weightticket with all details and further instructions is printed and the barrier opens (light goes green).
- At last the weighdetails are interfaced to the correct partner.
- This process repeats itself during the 2nd Weighing at the outgoing weighbridge.
- For exceptions the Protonweg is foreseen with a bypass on both sides. This to prevent a blockage at the weighbridges.

Extra functionality of importance for this application;

- Extensive logging of all peripheral devices.
- Functionality to open/close barriers, set light red/green, with the use of the UniWin-Screen.
- Module for the automatic distribution of e-mail messages about different subjects. (log-on/log-off, weigh process, device statuses, etc.)