

Meeting Description	Final Meeting
Meeting hosted by	BBS TGHS Bad Kreuznach

Date / Time / Place	Monday 8-4-2013
Name of Work line	Work line C
Name of Workgroup	Control system

Representative workgroup member	[NL] Terence van Acquoij
Co-representative workgroup member	[NL] Marc van Erp
Co-representative workgroup member	[BE] Brent Vleugels

Further workgroup members	[IT] Michele Agati
	[HDH] Manuel Dentgen
	[BE] Jens Slegers

Minute written by	[NL] Tonny van Dongen
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Description of work progress: Topics / Tasks / Results / Decisions / Facts of importance	Responsible school(s) or person(s) incl. deadlines
<p>During three meetings, one in den Bosch and two in Geel, we developed a transmitter and a receiver for sending radio signals from the puzzle panel to a wagon and in real time to a laptop. On a panel is for every country a button. Every button has the shape of that country. When you put on a button a radio signal goes to a receiver in the wagon of that country and will start an electronic gimmick. The signal will also be received by the laptop. The receiver will convert the radio signal into hexadecimal signal. That signal will be used for the printer port. The printer port starts the Power Point presentation from that country.</p> <p>The work that has to be done is to build a transmitter, two receivers and converter. It's also necessary to learn the language to programme the laptop so it will start the Power Point presentation.</p> <p>We have decided that Belgium will make the transmitter and that the Nederland's will built the 24 receivers, one for every wagon and they will make the program for the computer to start the Power Point.</p> <p>During the third meeting in Belgium we tested everything. It was very difficult to make the program. The students went to a university to learn how to write the program. And it was also a problem witch components to use. However during that third meeting everything was ready, except for one component that had to be built on the 24 prints (the receiver).</p>	

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<p>The results were good. After pushing on a button the receiver get the signal, a LED lighted up and a small Power Point presentation started up. So everything was ready for the last meeting in Germany and we made the appointment that on Friday the 5th April the Belgium students and teachers will come the Nederland's in the morning to assembly the components. After that we will go to Bad Kreuznach.</p> <p>On that Friday everyone was in Den Bosch. The students assembled the components and in the afternoon we went to Germany. We only have to test and to build the print in to the wagon.</p> <p>On Saturday the 6th of April after the morning flash light we found out that there was no connection made with the buttons, it was not clear who was responsible and which country's must have made those connections. So first we have to make those connections. We spent a morning by fixing that. In the afternoon we started with testing. And soon we discovered that not everything worked fine. Not all of the receivers worked correctly so we have to make a step backwards. Again we tested the components and some of them worked and some didn't. Did we make a mistake or a miscalculation? We didn't understand. But the time was running, there is a point of no return, and the other option is that the electronic gimmick will be started with a switch in state of the receiver. We worked on Saturday evening until nine o'clock. We were sure that we can make it work.</p> <p>The next morning on Sunday we started again after the morning flashlight. Again we started with testing. And after a morning with testing and reassembly we have some components how where working, but not all of them and time was running. We didn't have an explanation. In the meanwhile we were building the components into the wagons. We were hoping that we can fix everything.</p> <p>However, on Monday morning the 8th of April not all of the components were working so we decided that every wagon must be switched on separately with a button. Therefore we have to mount the switches into the wagons and dismount the receivers. It was a big disappointment for every one of us. After so many days of hard working it feels like failing.</p> <p>To build in the switches was no problem. And during the presentation there were no problems everything worked normal.</p>	