GEUTEBRÜCK

Skidata documentation.

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Version history

Date	Author	Reviewed by	Description
21.11.2018	Torsten Krügel		Update
05.12.2018	Torsten Krügel		Add VAM requirement

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Introduction

This integration is used to provide the Skidata Parking Logic system with license plate numbers from the Geutebrück G-Core system. The license plate recognition can be done with ANPR or LPR.

The Integration will be implemented as a G-Link Plugin. The Plugin needs to receive the LPR Actions from the LPR system and send it after request to the Skidata system.

Furthermore this integration will pass information from the Geutebrück Vehicle Access manager VAM to the Skidata server.

Functionality

The G-Link plugin offers a Winsock server connection with a given port.
Skidata can connect to this port.

G-Link will receive LPR actions and send them on request to the Skidata server.
If an VAM is installed on the system the VAM can create “GSCSVehicleAccessGranted ()” or “GSCSVehicleAccessDenied ()” accordingly to the managed car pool.
The Skidata server may ask the G-Link integration if a specific plate number can pass. The GLink integration will use the “GSCSVehicleAccessGranted ()” and “GSCSVehicleAccessDenied ()” actions to answers Skidata questions if a licence plates have acces or not.

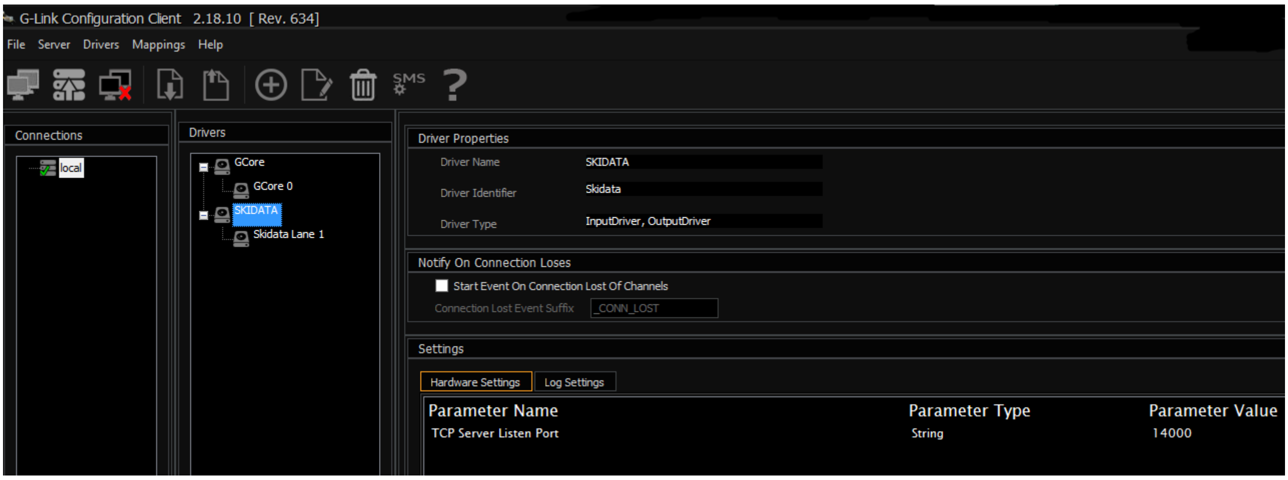
There is an option in the configuration which implements the Vam actions or not.
In case the VAM option is disabled all answers to Skidata are “YES”.

If a car is approaching the camera the LPR service will generate a LPR action.
The integration will store this plate number for this lane and will provide this plate number to Skidata if the Skidata server ask for this information with the “TRIGGER_SIGNAL” message.
If a VAM is installed the VAM creates a “GSCSVehicleAccessGranted ()” or “GSCSVehicleAccessDenied ()”. These decitions will be provided to the Skidata server on request.

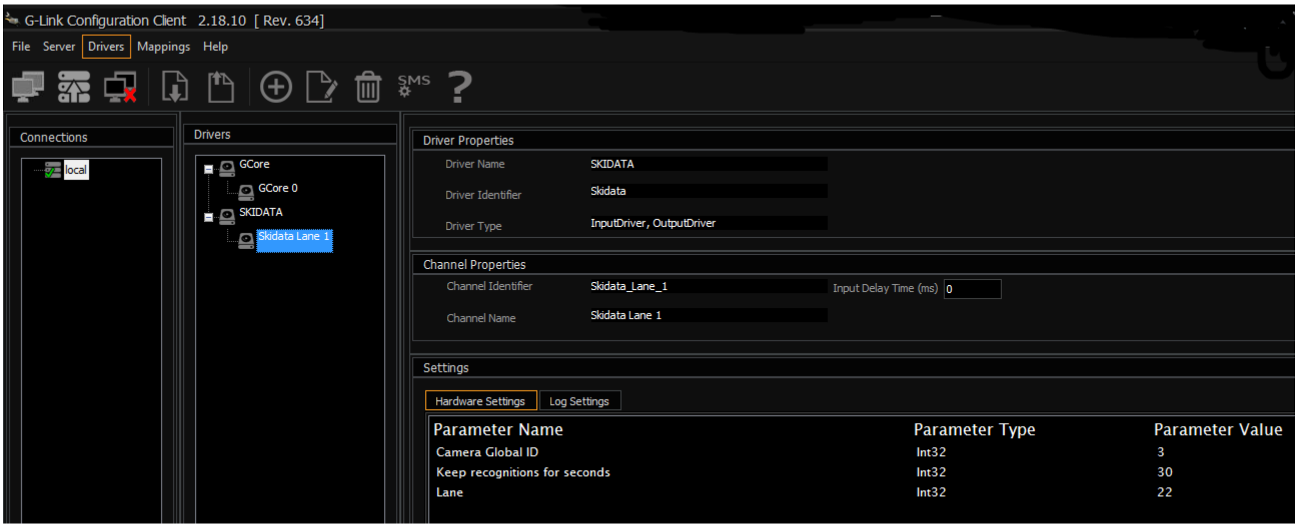
Usability

The G-LINK Skidata plugin can be added as a plugin in G-Link.
For each Skidata server one plugin must be installed.
For each line a driver must be installed into the plugin.

The configuration of the plugin is done in G-Link configurator.
The Skidata driver has an option for enable or disable VAM communication.



Each lane has its own camera.



License plate recognition upon entrance or exit

The procedure below just described applies to configurations where license plate recognition takes place upon entrance or exit prior to clearing the gate. In this case, the vehicle is stand still until the result of the license plate is received from the LPRS.
This information is then evaluated by the Parking System or by the VAM of Geutebrück and access is granted or denied, depending on the result of the verification procedure.

If no VAM is installed then the access granted decision is made in the Skidata Parking System. REQUEST_ACCESS or REQUEST_ACCESS_EX messages from the Skidata to the integration will be always answered with “YES” if no VAM is installed. The LPR number plate will be transferred to Skidata if the “TRIGGER_SIGNAL” was sent to the integration.
If no LPR action was generated in case the plate is not visible , the integration will not react to the “TRIGGER_SIGNAL” and no plate number will be send to Skidata. The Sidata server will then open the gate after the timeout of 20 seconds.

APT 450 (Skidata)	GLink integration	Induction Loop (Hardware)
		Vehicle approaches gate; possible hardware trigger may set off.
A TRIGGER_SIGNAL message must be generated.		
	Image is recorded & analysed; unique transaction number is generated; image file is stored. Manual review via operator can be initiated at this time (but need not).	
	Result of image analysis and transaction no. are transmitted to Parking System via the PLATE_DATA or PLATE_DATA_2 message	
SPT is requested and ticket number is generated (entry), or card with serial number is read (entry or exit); if Parking System has not received license plate details by then, a TRIGGER_SIGNAL message is transmitted to LPRS		
	If no PLATE_DATA is sent to parking system, it will be done now.	
Ticket number is linked to transaction number and license plate; REQUEST_ACCESS or REQUEST_ACCESS_EX message is transmitted to LPRS		
	vehicle registration number is verified im VAM; blocking lists are checked automatically and can be verified via operator (if required); The result of the VAM will be transmitted to Skidata Parking System. If option “VAM enabled” is false then the result is always “TRUE”. (ANSWER_ACCESS message or ANSWER_ACCESS_EX). **Note:** This message is sent only in response to REQUEST_ACCESS or REQUEST_ACCESS_EX messages	
At entrance gate registration number is coded onto ticket (if required); barrier opens; vehicle		

passes through entrance/exit gate; ticket number, registration number and transaction number are transmitted to LPRS for confirmation with the message TICKET_DATA. In case of rejection of the vehicle or a not passing vehicle the message; TICKET_DATA is transmitted in any case.		