



# What's new in LISA 8.2

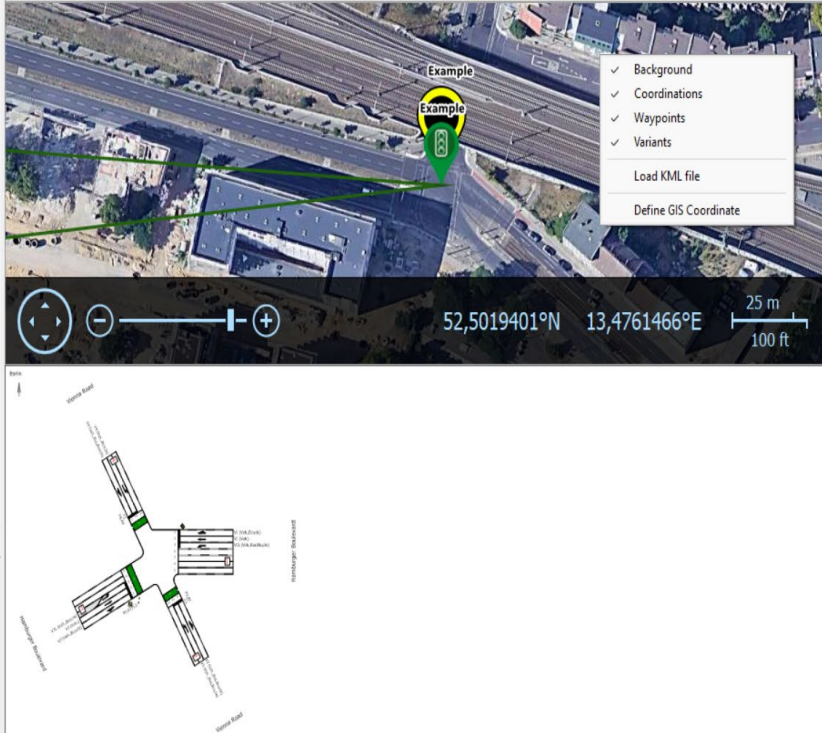
**LISA**  POWERFUL  
TRAFFIC DESIGN

LISA 8.2.0

Address: Deutschland, Berlin, Storkower Straße 142

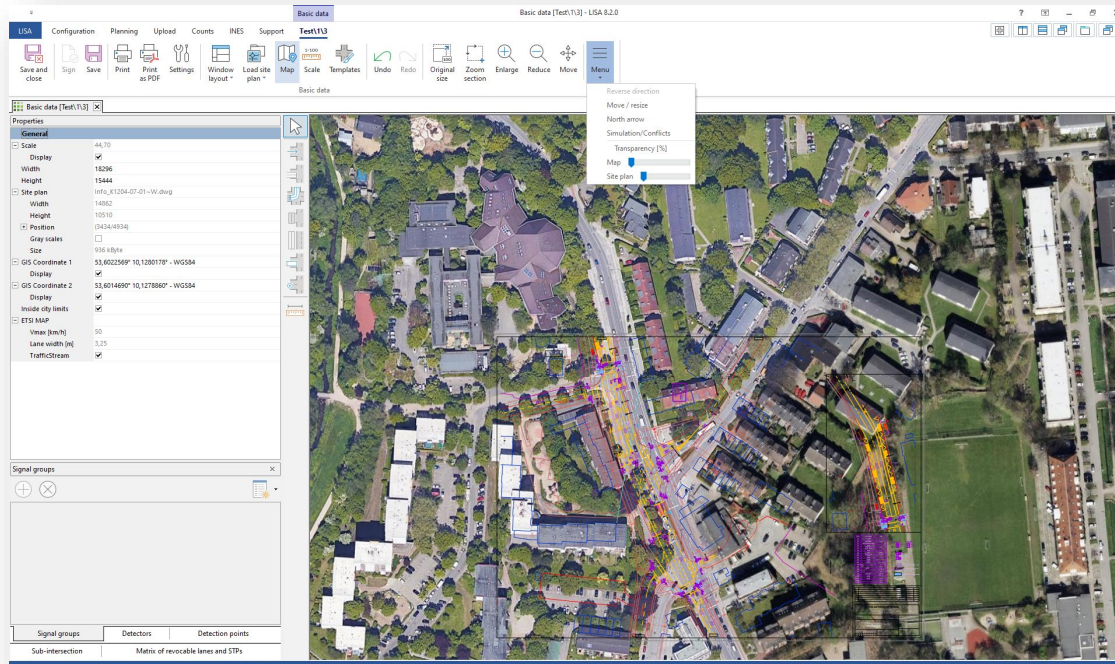
Properties table	
General	
1 Location name	
2 Intersection name	Berlin
3 Variant name	
4 Planner	SikkaMayookh
5 Project name	Rebuilding
6 Job no.	0815
7 Client	Government
8 Delivery date	
9 Guideline	RILSA 2015 (En)
10 Location default file	default
11 Controller standard	OCIT standard
Identification	
12 Field no.	100
13 Traffic computer no.	2
14 System no.	3
15 Subsystem no.	4
16 Unit no.	5
17 RelKnoten	6
18 Operator domain	2
Management	
19 Status	Preliminary draft
20 Owner	SikkaMayookh

Public comment | Private comment | Coordination



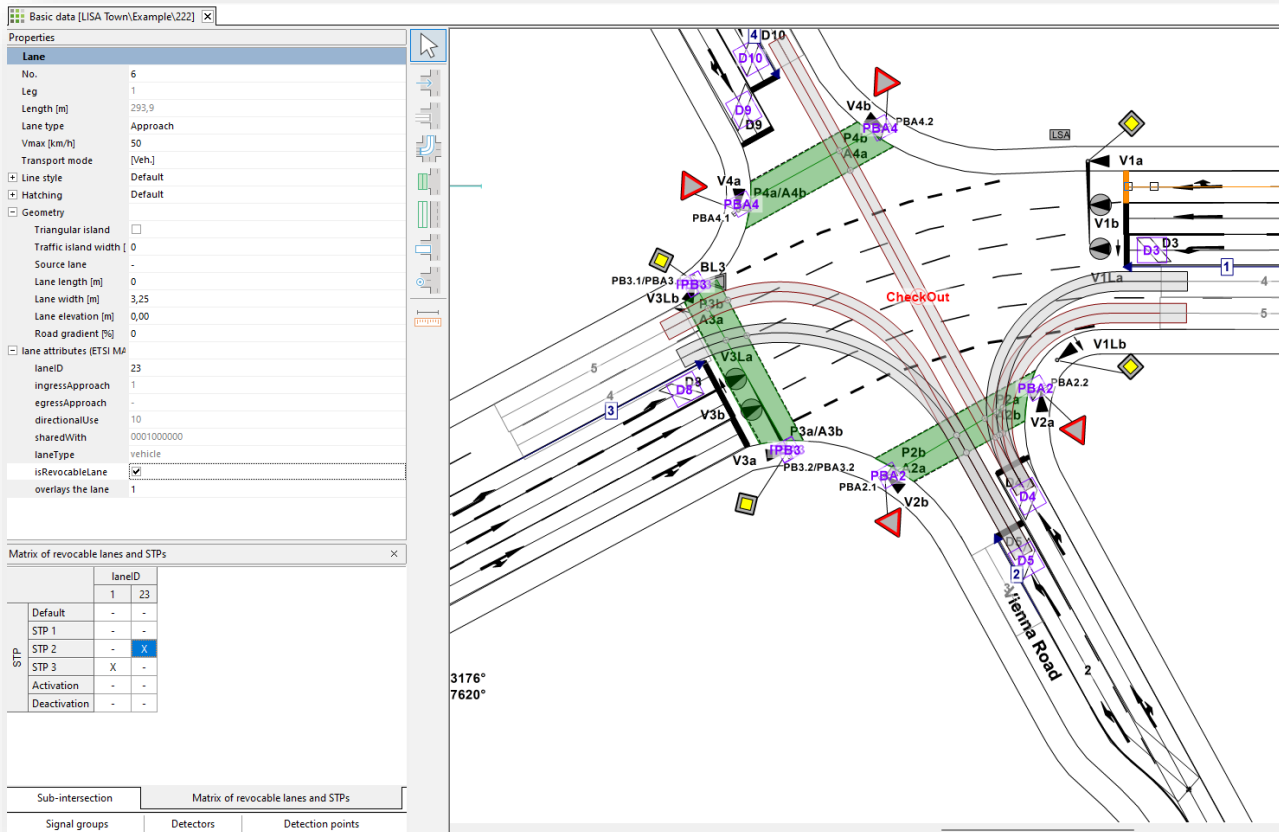
- Address search field in map
- Add GIS coordinate via right-click in map
- Firebird 5.0 compatibility

# Basic data



- Web Map
- Optional transparency of the site plan and/or the map
- Shift the view to the right, allowing extensions of the access routes on the left and top

# Basic data and MAP



**Properties**

**Lane**

- No. 6
- Leg 1
- Length [m] 293,9
- Lane type Approach
- Vmax [km/h] 50
- Transport mode [Veh.]
- Line style Default
- Hatching Default
- Geometry
  - Triangular island
  - Traffic island width [m] 0
  - Source lane
  - Lane length [m] 0
  - Lane width [m] 3,25
  - Lane elevation [m] 0,00
  - Road gradient [%] 0
- lane attributes (ETSI M4)
  - laneID 23
  - ingressApproach 1
  - egressApproach -
  - directionalUse 10
  - sharedWith 0001000000
  - laneType vehicle
  - isRevocableLane
  - overlays the lane 1

**Matrix of revocable lanes and STPs**

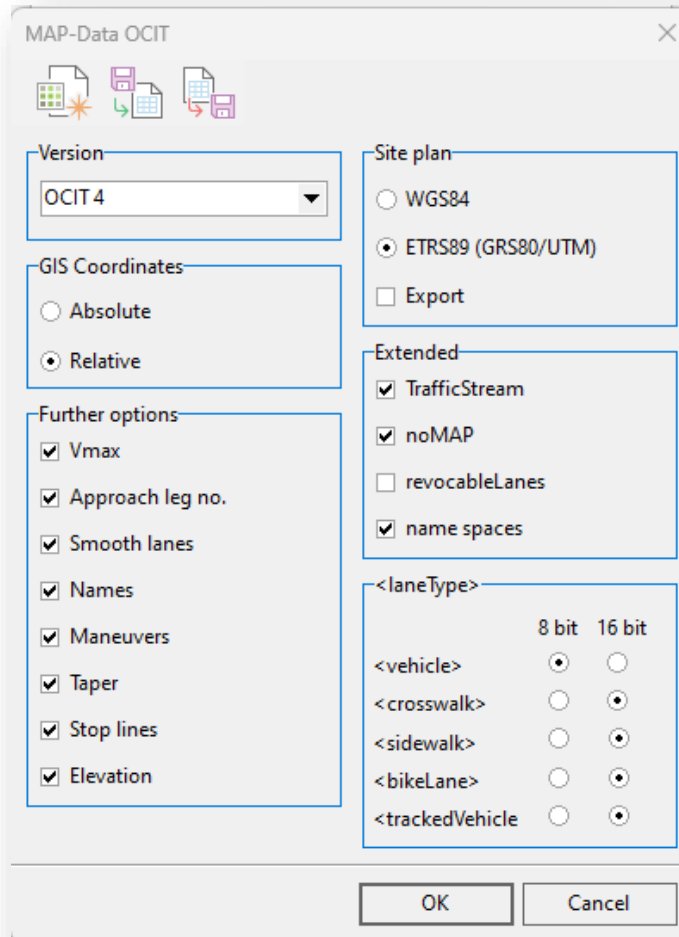
STP	laneID	
	1	23
Default	-	-
STP 1	-	-
STP 2	-	X
STP 3	X	-
Activation	-	-
Deactivation	-	-

Sub-intersection: Matrix of revocable lanes and STPs

Signal groups: Detectors: Detection points:

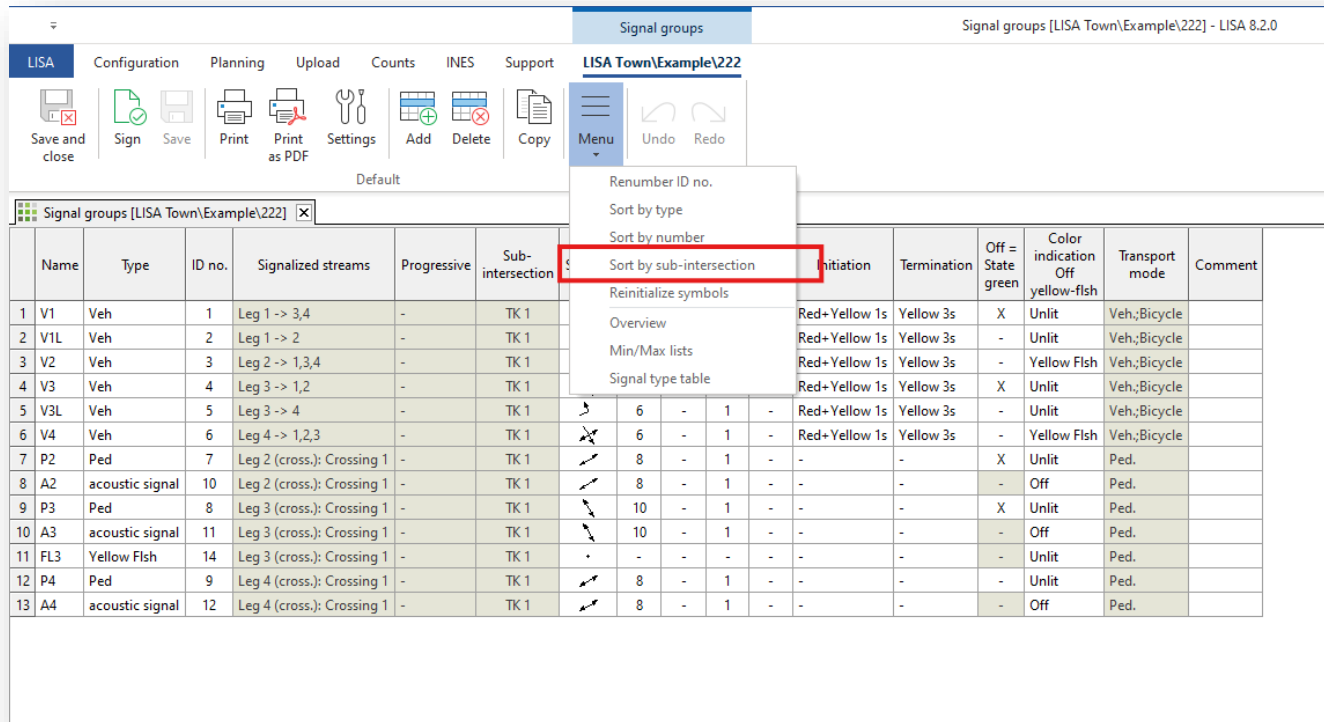
- Complete definition of revocable lanes:
  - Matrix of revocable lanes and STPs
  - Define and edit overlaying lanes
  - Simplified travel path input for overlaying lanes
- Definition of remote intersections





- Support of multiple MAP versions
- Revocable lanes
- Overlaying lanes
- Remote intersections
- Load default settings
- Validation of mandatory inputs (e.g., right-of-way rules)

# Signal groups



The screenshot shows the LISA software interface for 'Signal groups [LISA Town\Example\222] - LISA 8.2.0'. The 'Menu' dropdown is open, showing options like 'Renummer ID no.', 'Sort by type', 'Sort by number', and 'Sort by sub-intersection' (which is highlighted with a red box). Below the menu is a table of signal groups with columns: Name, Type, ID no., Signalized streams, Progressive, Sub-intersection, Initiation, Termination, Off = State green, Color indication Off yellow-flsh, Transport mode, and Comment.

Name	Type	ID no.	Signalized streams	Progressive	Sub-intersection	Initiation	Termination	Off = State green	Color indication Off yellow-flsh	Transport mode	Comment		
1 V1	Veh	1	Leg 1 -> 3,4	-	TK 1	Red+ Yellow 1s	Yellow 3s	X	Unlit	Veh.;Bicycle			
2 V1L	Veh	2	Leg 1 -> 2	-	TK 1	Red+ Yellow 1s	Yellow 3s	-	Unlit	Veh.;Bicycle			
3 V2	Veh	3	Leg 2 -> 1,3,4	-	TK 1	Red+ Yellow 1s	Yellow 3s	-	Yellow Flsh	Veh.;Bicycle			
4 V3	Veh	4	Leg 3 -> 1,2	-	TK 1	Red+ Yellow 1s	Yellow 3s	X	Unlit	Veh.;Bicycle			
5 V3L	Veh	5	Leg 3 -> 4	-	TK 1	Red+ Yellow 1s	Yellow 3s	-	Unlit	Veh.;Bicycle			
6 V4	Veh	6	Leg 4 -> 1,2,3	-	TK 1	Red+ Yellow 1s	Yellow 3s	-	Yellow Flsh	Veh.;Bicycle			
7 P2	Ped	7	Leg 2 (cross.): Crossing 1	-	TK 1	8	-	1	-	-	X	Unlit	Ped.
8 A2	acoustic signal	10	Leg 2 (cross.): Crossing 1	-	TK 1	8	-	1	-	-	-	Off	Ped.
9 P3	Ped	8	Leg 3 (cross.): Crossing 1	-	TK 1	10	-	1	-	-	X	Unlit	Ped.
10 A3	acoustic signal	11	Leg 3 (cross.): Crossing 1	-	TK 1	10	-	1	-	-	-	Off	Ped.
11 FL3	Yellow Flsh	14	Leg 3 (cross.): Crossing 1	-	TK 1	-	-	-	-	-	-	Unlit	Ped.
12 P4	Ped	9	Leg 4 (cross.): Crossing 1	-	TK 1	8	-	1	-	-	-	Unlit	Ped.
13 A4	acoustic signal	12	Leg 4 (cross.): Crossing 1	-	TK 1	8	-	1	-	-	-	Off	Ped.

➔ Possibility to sort signal groups by sub-intersections

- Optional deactivation of the general factor 1.1
- Option for decimal places in intermediate values to improve traceability of mixed flow calculations

Evaluation of unsignalized intersections [Kreisverkehr\1\1] X

Flows

Intersection: TK 1

Wait time: 45 s

Factor: 100 %

Site of intersection:

Within conurbations

Outside conurbations

Rounding the interim results:

5 Decimal places (LISA-Default)

3 Decimal places (HBS 2015)

Proportion of HGV:

General factor

Leg	Approach	q <sub>PEZ</sub> [PCU/h]	q <sub>PEK</sub> [PCU/h]	C <sub>PE</sub> [PCU/h]	C <sub>Fz</sub> [Veh/h]	R <sub>Z</sub> [Veh/h]	t <sub>w,Z</sub> [s]	LOS
1	Z1	330,0	330,0	935,0	850,0	550,0	6,5	A
2	Z2	330,0	330,0	935,0	850,0	550,0	6,5	A
3	Z3	330,0	330,0	935,0	850,0	550,0	6,5	A
4	Z4	330,0	330,0	945,5	859,5	559,5	6,4	A
Total LOS								A

## DESCRIPTION OF THE LISA C-ITS LIBRARY 2.1

This additional library can only be used together with OML 3.2 or higher.

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## ➤ New LISA C-ITS Library 2.1 with new MAP and SREM functions

### MAP-Function

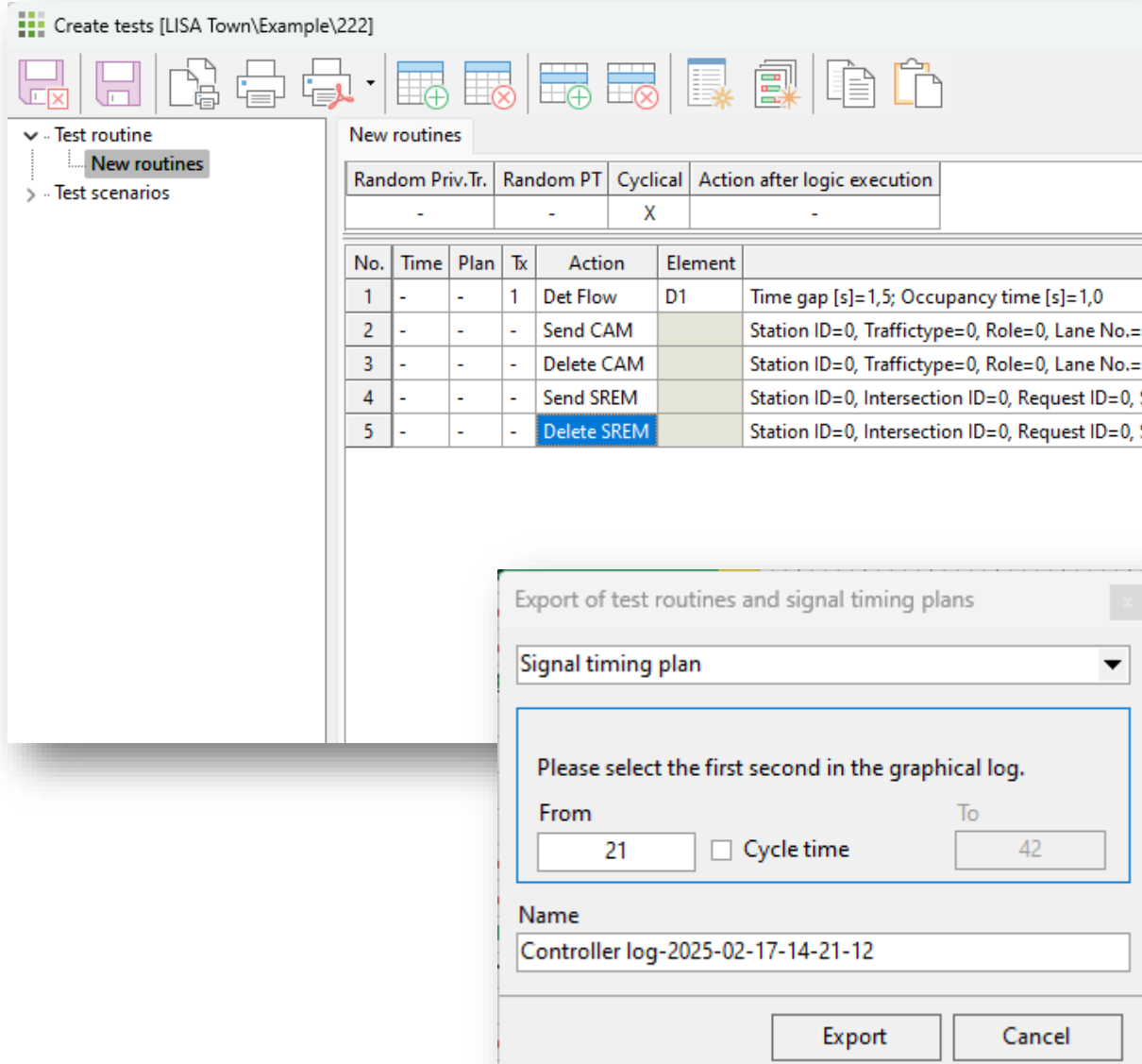
1. MapTrafficStrExist
2. MapLaneSgr
3. MapLaneSgrCount
4. MapConnCount
5. MapConnAttr

### SREM-Funktion

Extract additional information from SREM:

1. Inbound Lane
2. Outbound Lane
3. Connection
4. Distance to the stop line
5. Speed





The screenshot shows the 'Create tests' software interface. The main window displays a table of 'New routines' with columns for 'Random Priv.Tr.', 'Random PT', 'Cyclical', and 'Action after logic execution'. Below this is a detailed table of test routines with columns for 'No.', 'Time', 'Plan', 'Tx', 'Action', 'Element', and a description. An 'Export of test routines and signal timing plans' dialog box is open, showing a dropdown for 'Signal timing plan', a text area with instructions, and input fields for 'From' (21) and 'To' (42) with a 'Cycle time' checkbox. The dialog also has a 'Name' field containing 'Controller log-2025-02-17-14-21-12' and 'Export' and 'Cancel' buttons.

Random Priv.Tr.	Random PT	Cyclical	Action after logic execution
-	-	X	-

No.	Time	Plan	Tx	Action	Element	
1	-	-	1	Det Flow	D1	Time gap [s]=1,5; Occupancy time [s]=1,0
2	-	-	-	Send CAM		Station ID=0, Trafficitype=0, Role=0, Lane No.=0
3	-	-	-	Delete CAM		Station ID=0, Trafficitype=0, Role=0, Lane No.=0
4	-	-	-	Send SREM		Station ID=0, Intersection ID=0, Request ID=0, S
5	-	-	-	Delete SREM		Station ID=0, Intersection ID=0, Request ID=0, S

Export of test routines and signal timing plans

Signal timing plan

Please select the first second in the graphical log.

From   Cycle time To

Name  
Controller log-2025-02-17-14-21-12

Export Cancel

- New function in test routine: Send CAM and Send SREM
- Export and import of individual test routines
- Save the start time in the test routine, enabling better repetition of tests with synchronization
- Cut out STP from the graphical log for a freely selectable cycle time

Meldestrecken-Parameter (ms)
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Meldestrecken-Parameter (ms) - Satz 1

	Meldestrecke	Meldestr. aktiv	RFZ bleibt stehen	Zwangsabm. nur bei Freigabe	Mehrfahrzeit Zwangsabm. [s]	Freigabe-vorlauf [s]	max. Freigabezeit [s]	max. Mehrfahrzeit für Extraverl. [s]
	Strecke	aktiv	stop	Zwang_Frei	MFZ_ZwAb	Vorlauf	MaxFrei	MaxMFZ
1	MS_S01	X	X	X	20	3	70	20
2	MS_S02	X	X	X	20	8	70	20
3	MS_K11	X	X	X	20	5	70	20
4	MS_K01	X	X	X	20	5	70	20
5	MS_K03	X	X	X	20	5	70	20
6	MS_K12	X	X	X	20	5	70	20

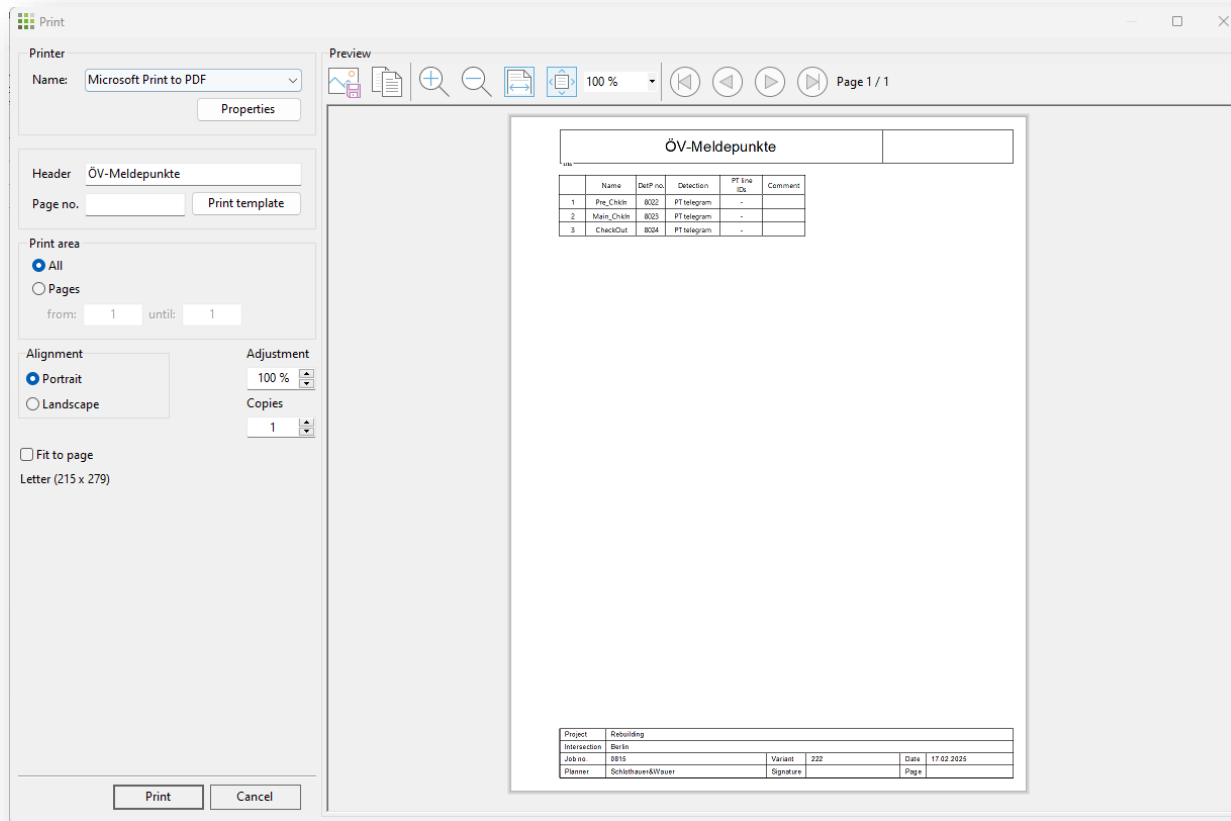
Meldestrecken-Parameter (ms) - Satz 2

	Meldestrecke	Meldestr. aktiv	RFZ bleibt stehen	Zwangsabm. nur bei Freigabe	Mehrfahrzeit Zwangsabm. [s]	Freigabe-vorlauf [s]	max. Freigabezeit [s]	max. Mehrfahrzeit für Extraverl. [s]
	Strecke	aktiv	stop	Zwang_Frei	MFZ_ZwAb	Vorlauf	MaxFrei	MaxMFZ
1	MS_S01	X	X	X	20	3	70	20
2	MS_S02	X	X	X	20	8	70	20
3	MS_K11	X	X	X	20	5	70	20
4	MS_K01	X	X	X	20	5	70	20
5	MS_K03	X	X	X	20	5	70	20
6	MS_K12	X	X	X	20	5	70	20

Meldestrecken-Parameter (ms) - Satz 3

	Meldestrecke	Meldestr. aktiv	RFZ bleibt stehen	Zwangsabm. nur bei Freigabe	Mehrfahrzeit Zwangsabm. [s]	Freigabe-vorlauf [s]	max. Freigabezeit [s]	max. Mehrfahrzeit für Extraverl. [s]
	Strecke	aktiv	stop	Zwang_Frei	MFZ_ZwAb	Vorlauf	MaxFrei	MaxMFZ
1	MS_S01	X	X	X	20	3	70	20
2	MS_S02	X	X	X	20	8	70	20
3	MS_K11	X	X	X	20	5	70	20
4	MS_K01	X	X	X	20	5	70	20
5	MS_K03	X	X	X	20	5	70	20
6	MS_K12	X	X	X	20	5	70	20

- Display of structured parameter sets with variable parameters in the currently monitored values during step-by-step debugging.
- Sequence of logic parameter sets changeable



- Public Transport: Enable different comments for each public transport parameter set
- Logic: Automatically load English or Spanish aliases
- Printing: Additional image formats can be used for the logo in the header
- OCIT-C import