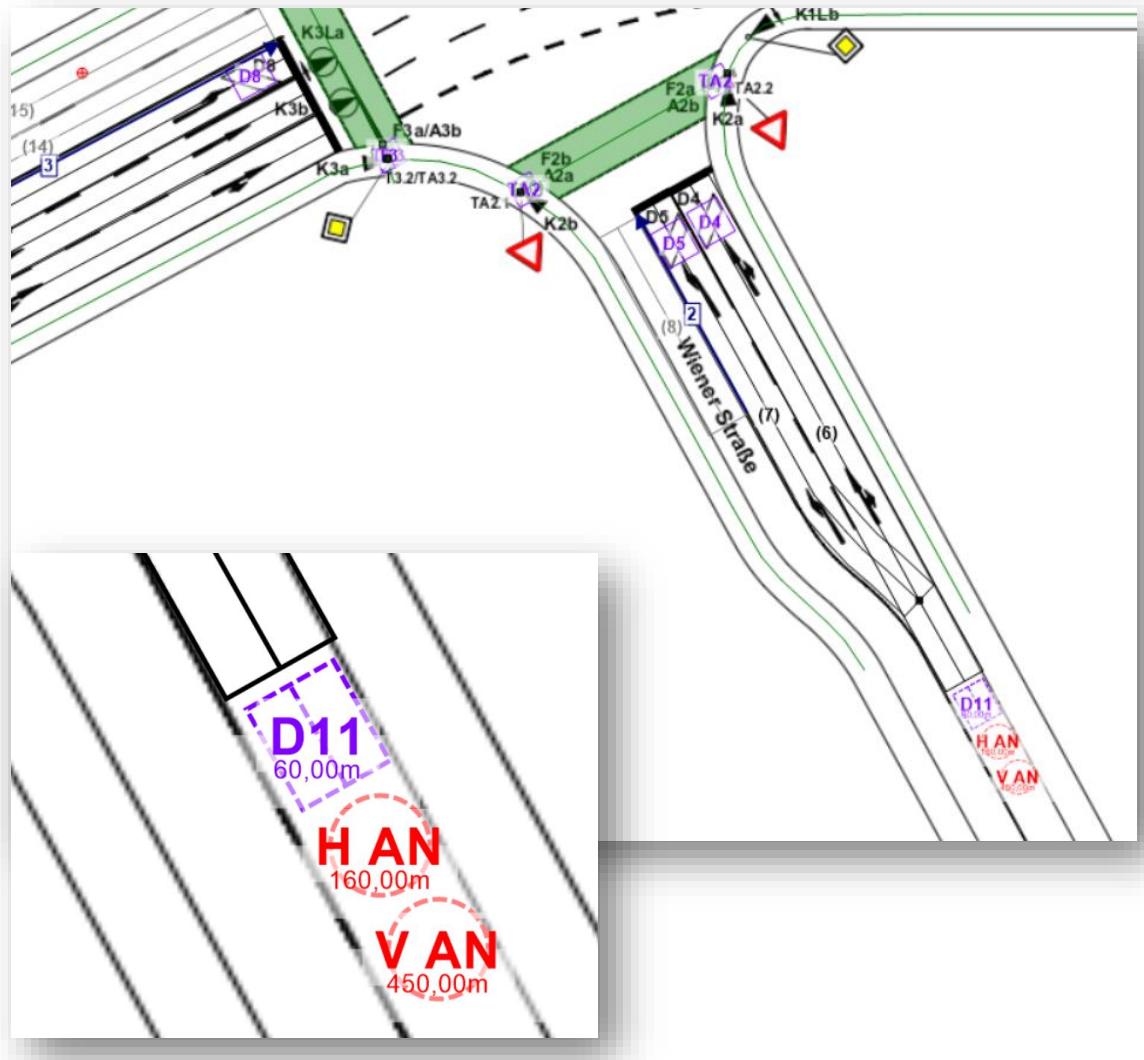




# What's new in LISA 8.1

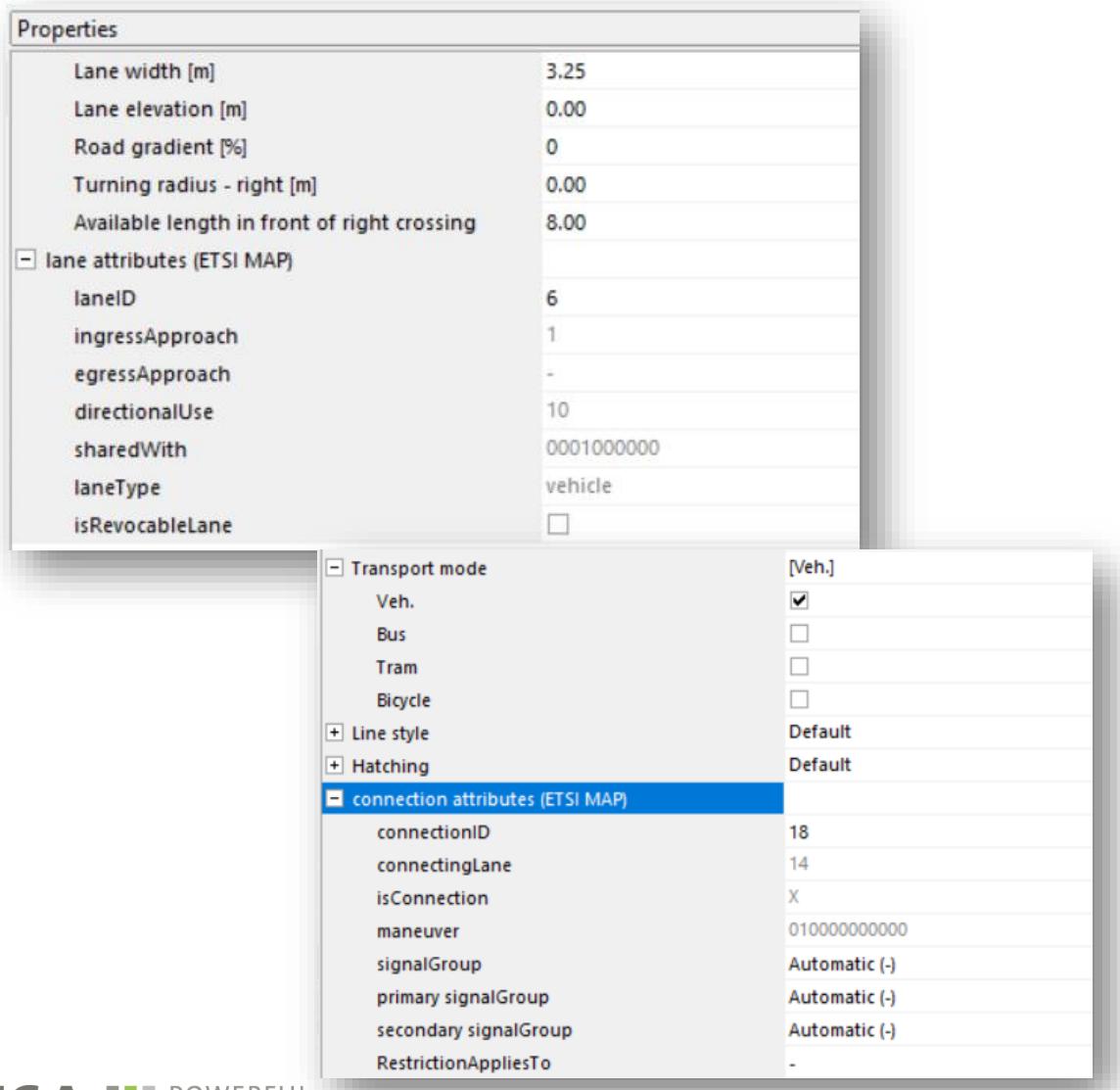
**LISA**  POWERFUL  
TRAFFIC DESIGN

# Basic data



- ▶ Import of a DWG site plan including selection of different layouts
- ▶ Detection points can be entered graphically (analogous to detectors)
- ▶ Distances between the detection points can be adopted from the basic data into a detection chain
- ▶ Schematic representation for a location beyond the length of the lane with the distance to stop line

# Basic data (MAP-Extension)

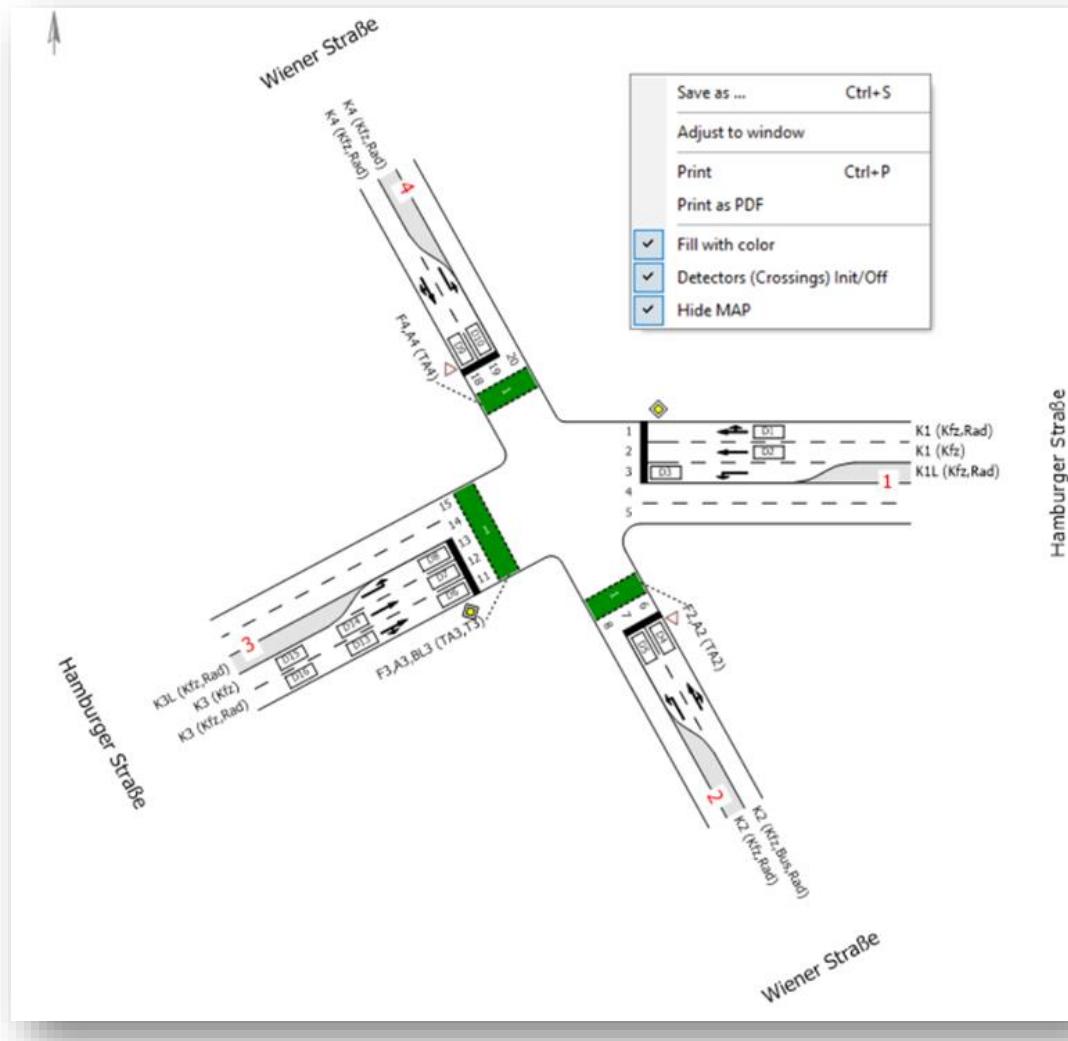


The screenshot shows a 'Properties' panel with the following data:

Attribute	Value
Lane width [m]	3.25
Lane elevation [m]	0.00
Road gradient [%]	0
Turning radius - right [m]	0.00
Available length in front of right crossing	8.00
<b>lane attributes (ETSI MAP)</b>	
laneID	6
ingressApproach	1
egressApproach	-
directionalUse	10
sharedWith	0001000000
laneType	vehicle
isRevocableLane	<input type="checkbox"/>
<b>Transport mode</b>	
Veh.	<input checked="" type="checkbox"/>
Bus	<input type="checkbox"/>
Tram	<input type="checkbox"/>
Bicycle	<input type="checkbox"/>
<b>Line style</b>	
<b>Hatching</b>	
<b>connection attributes (ETSI MAP)</b>	
connectionID	18
connectingLane	14
isConnection	X
maneuver	010000000000
signalGroup	Automatic (-)
primary signalGroup	Automatic (-)
secondary signalGroup	Automatic (-)
RestrictionAppliesTo	-

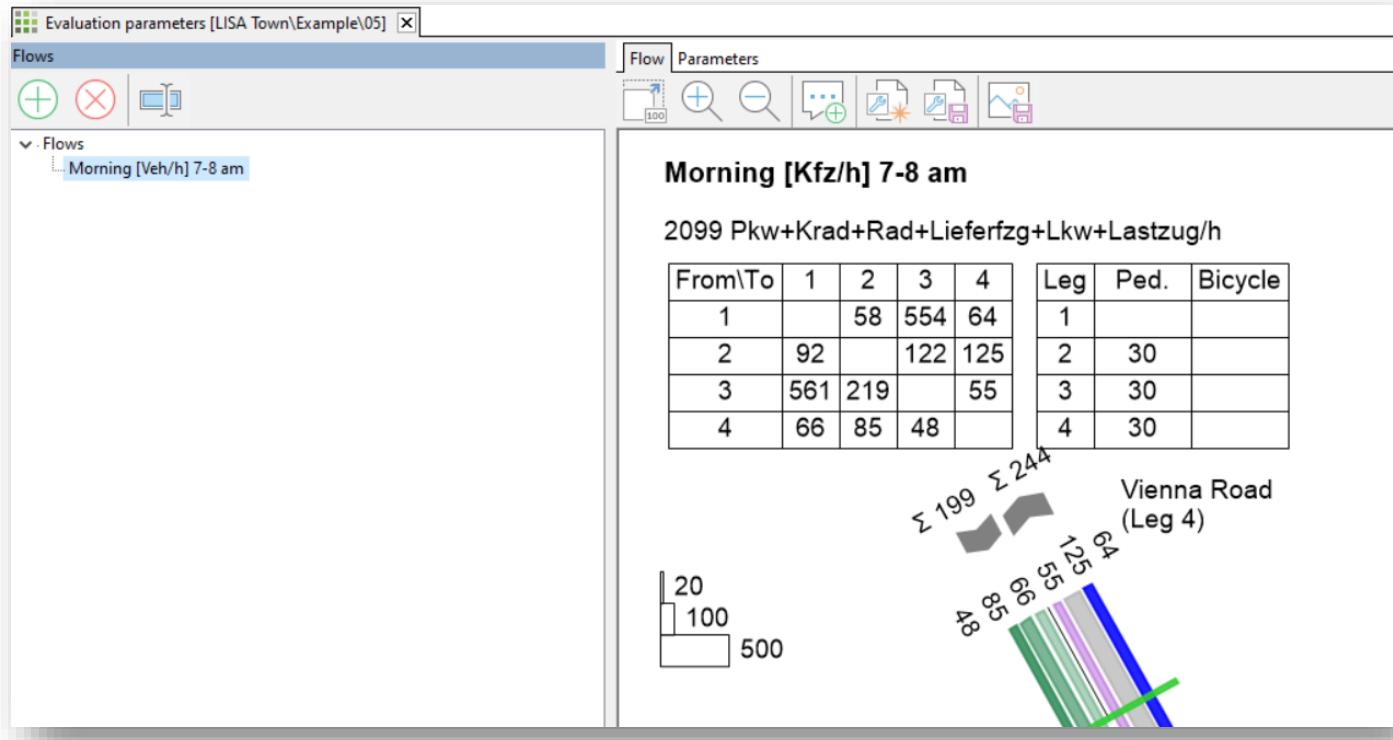
- ▶ Advanced display of MAP content
- ▶ Automatic preselection of MAP attributes based on traffic information such as SGR types
- ▶ Individual configuration of MAP attributes
- ▶ Elevation attribution possible

# Intersection diagram



- ▶ Optionally display MAP lane number or LISA lane number
- ▶ Display of all detectors on the lanes
- ▶ No display of stop lines in unsignalized lanes

# Evaluation parameters



- ▶ Pedestrian and bicycle flows are now also shown in a table

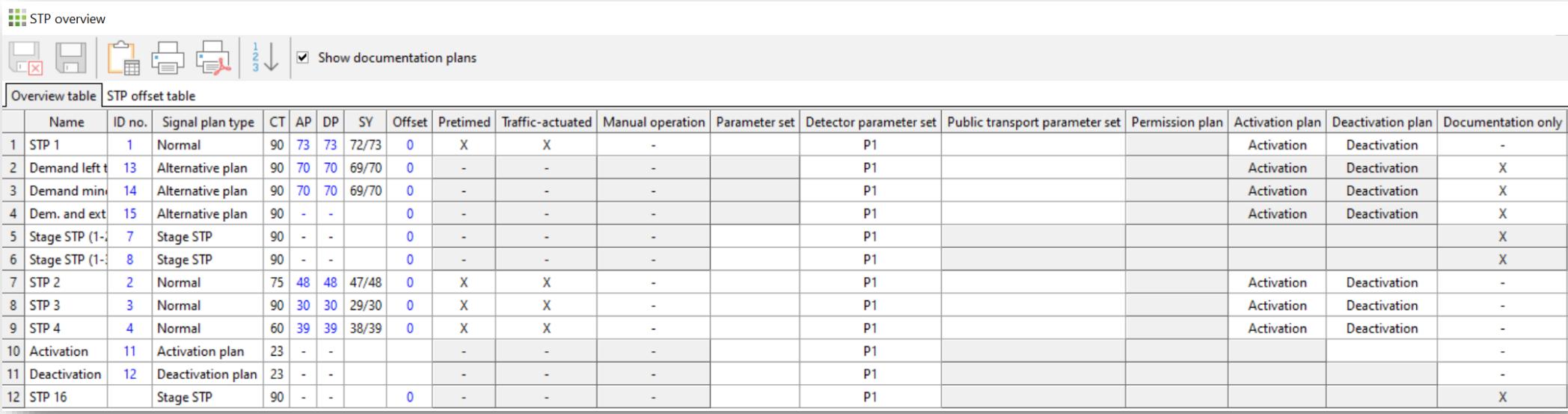
# Conflict and intergreen time matrix

		entering								
		V3	P4	P5	D6	V0	P1	P2	P3	P6
CLEARING	V3	■	1	3	3	2	-	-	-	-
	P4	8	■	-	-	-	-	-	-	-
	P5	6	-	■	-	-	-	-	-	-
	D6	0	-	-	■	-	-	-	-	-
	V0	2	-	-	-	■	1	3	-	-
	P1	-	-	-	-	7	■	-	-	-
	P2	-	-	-	-	5	-	■	-	-
	P3	-	-	-	-	-	-	-	■	2
	P6	-	-	-	-	-	-	-	■	1

- ▶ Colored representation of the sub-intersection assignment of the signal groups in the conflict and intergreen time matrices
- ▶ Warning message, if intergreen times of the default intergreen do not match those of the intergreen calculation

# Signal time plans overview

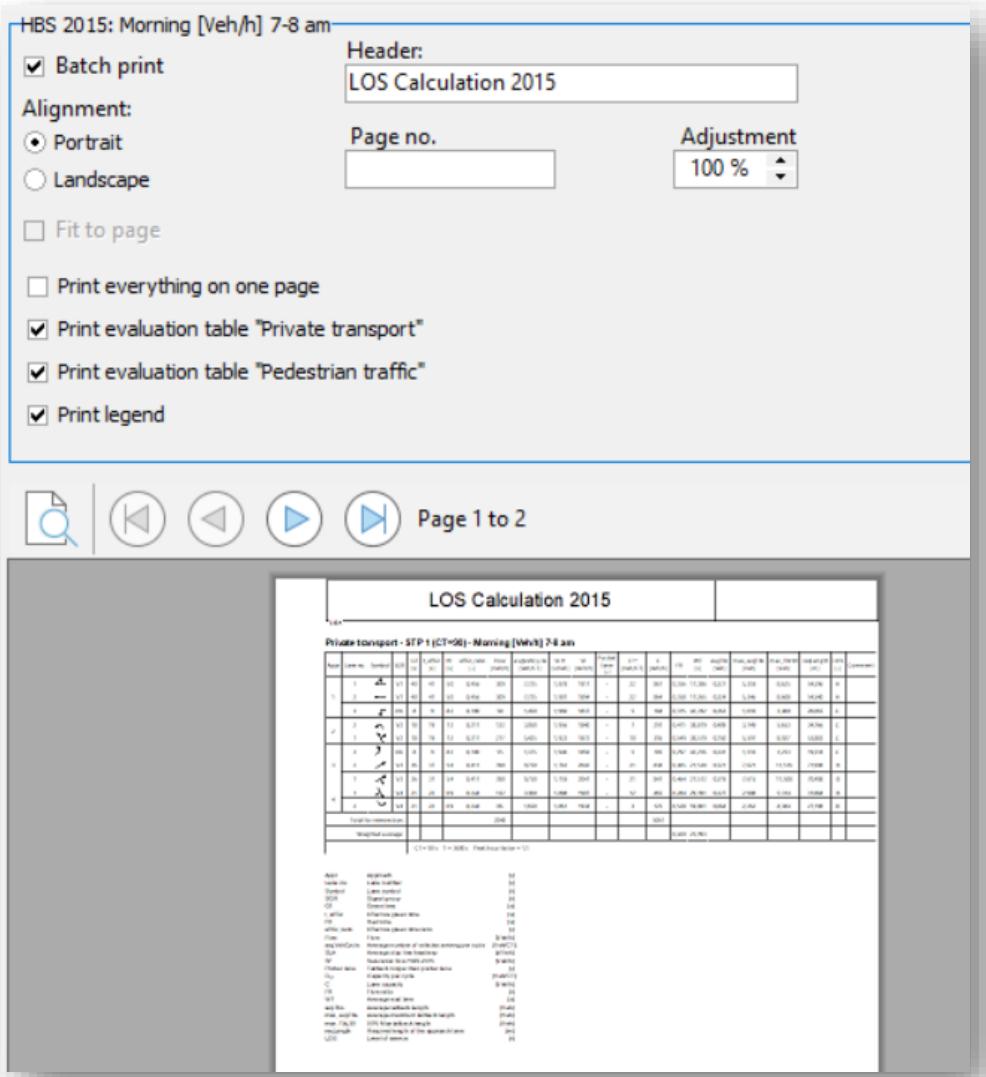
- ▶ Display of all assigned parameter sets and other STP properties
- ▶ Quick change of values and parameter sets
- ▶ Display of all - or only STP without documentation state
- ▶ Integration of the table in batch print



The screenshot shows the LISA software interface with the title "STP overview". The top menu bar includes standard icons for file operations (New, Save, Print, etc.) and a checkbox for "Show documentation plans". Below the menu is a toolbar with three tabs: "Overview table" (selected), "STP offset table", and "STP offset table (extended)". The main area displays a table with 12 rows, each representing a different signal time plan (STP). The columns include: Name, ID no., Signal plan type, CT, AP, DP, SY, Offset, Pretimed, Traffic-actuated, Manual operation, Parameter set, Detector parameter set, Public transport parameter set, Permission plan, Activation plan, Deactivation plan, and Documentation only. The table entries are as follows:

	Name	ID no.	Signal plan type	CT	AP	DP	SY	Offset	Pretimed	Traffic-actuated	Manual operation	Parameter set	Detector parameter set	Public transport parameter set	Permission plan	Activation plan	Deactivation plan	Documentation only
1	STP 1	1	Normal	90	73	73	72/73	0	X	X	-	P1				Activation	Deactivation	-
2	Demand left t	13	Alternative plan	90	70	70	69/70	0	-	-	-	P1				Activation	Deactivation	X
3	Demand min	14	Alternative plan	90	70	70	69/70	0	-	-	-	P1				Activation	Deactivation	X
4	Dem. and ext	15	Alternative plan	90	-	-		0	-	-	-	P1				Activation	Deactivation	X
5	Stage STP (1-2)	7	Stage STP	90	-	-		0	-	-	-	P1						X
6	Stage STP (1-3)	8	Stage STP	90	-	-		0	-	-	-	P1						X
7	STP 2	2	Normal	75	48	48	47/48	0	X	X	-	P1				Activation	Deactivation	-
8	STP 3	3	Normal	90	30	30	29/30	0	X	X	-	P1				Activation	Deactivation	-
9	STP 4	4	Normal	60	39	39	38/39	0	X	X	-	P1				Activation	Deactivation	-
10	Activation	11	Activation plan	23	-	-		-	-	-	-	P1						-
11	Deactivation	12	Deactivation plan	23	-	-		-	-	-	-	P1						-
12	STP 16		Stage STP	90	-	-		0	-	-	-	P1						X

# Further Features



The screenshot shows the LISATRAffic software interface. At the top, there's a header bar with the text "HBS 2015: Morning [Veh/h] 7-8 am". Below it is a print settings panel with the following options:

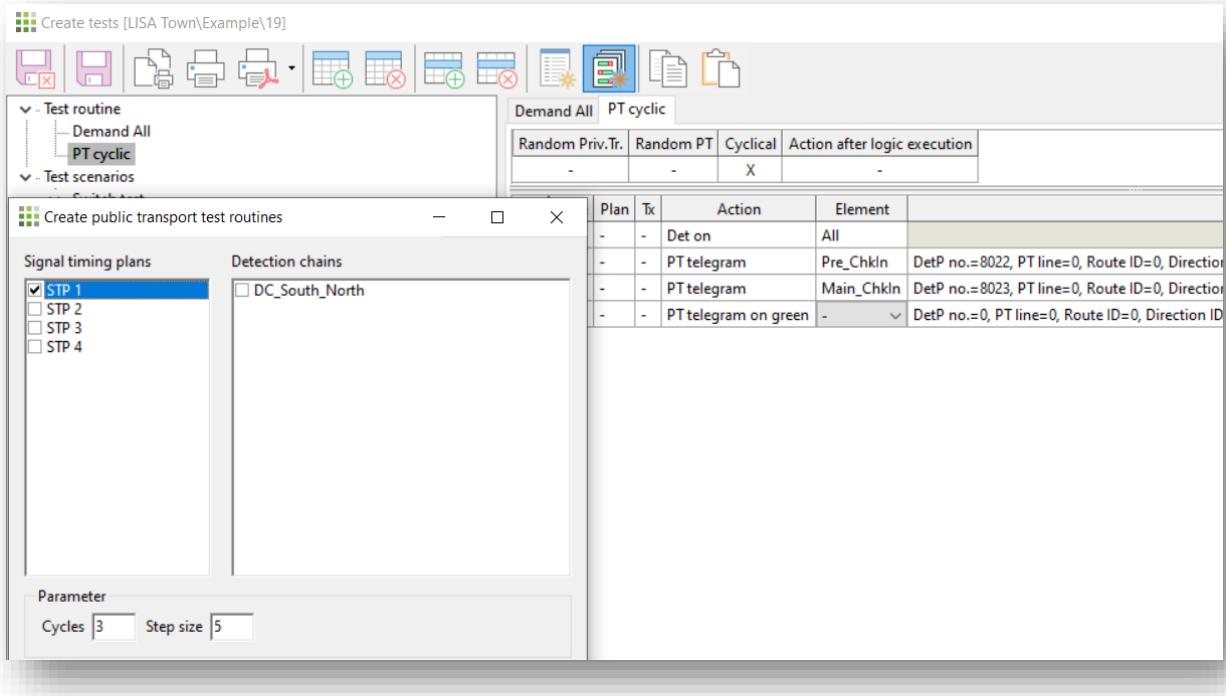
- Batch print
- 
- Alignment: Portrait
- 
- 
- Fit to page
- Print everything on one page
- Print evaluation table "Private transport"
- Print evaluation table "Pedestrian traffic"
- Print legend

At the bottom of the print settings panel are four navigation icons: magnifying glass, left arrow, right arrow, and double right arrow, followed by the text "Page 1 to 2".

The main area displays a table titled "LOS Calculation 2015" with the subtitle "Private transport - STP 1 (CT=0) - Morning [Veh/h] 7-8 am". The table has several columns representing traffic parameters and LOS levels. At the bottom of the table, it says "Weighted average" and "174 = 300m / 1 = 300m - First hour factor = 1". Below the table is a legend with various symbols and their meanings.

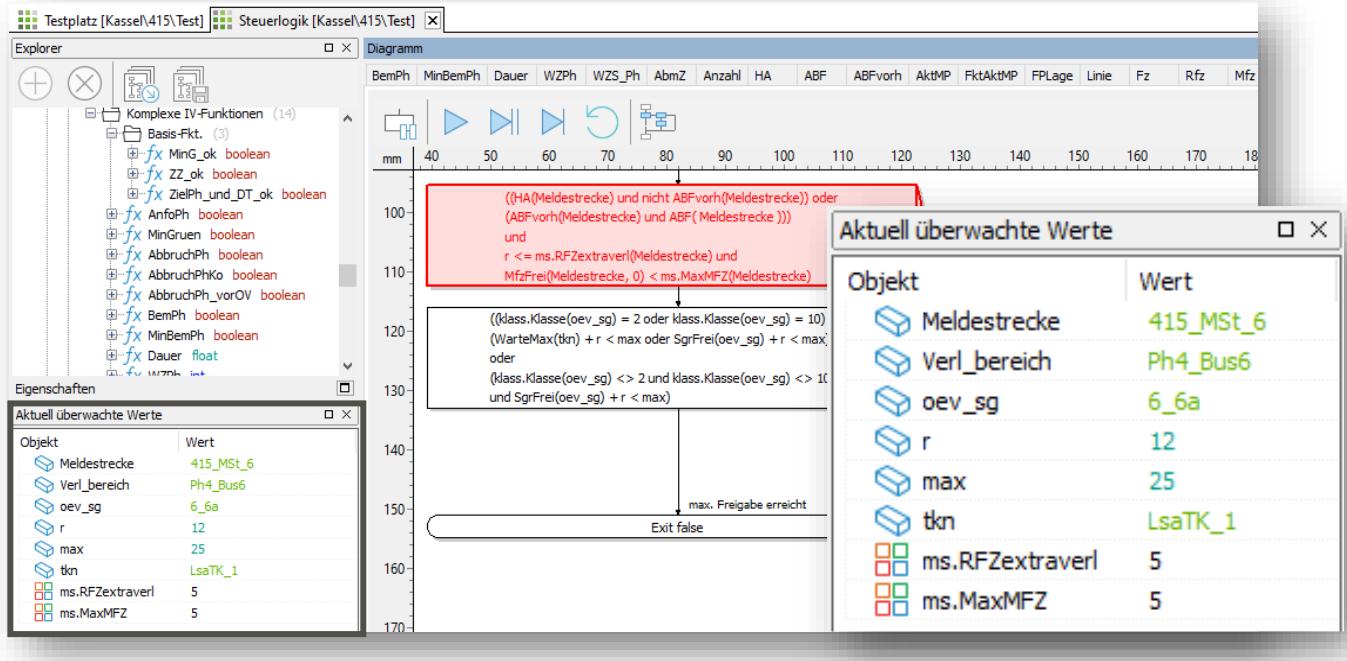
- ▶ LOS calculation can be configured
- ▶ Detector table: Copy a value to the entire column or selected cells
- ▶ Stage-transition can be renamed fast via right click

# Test site



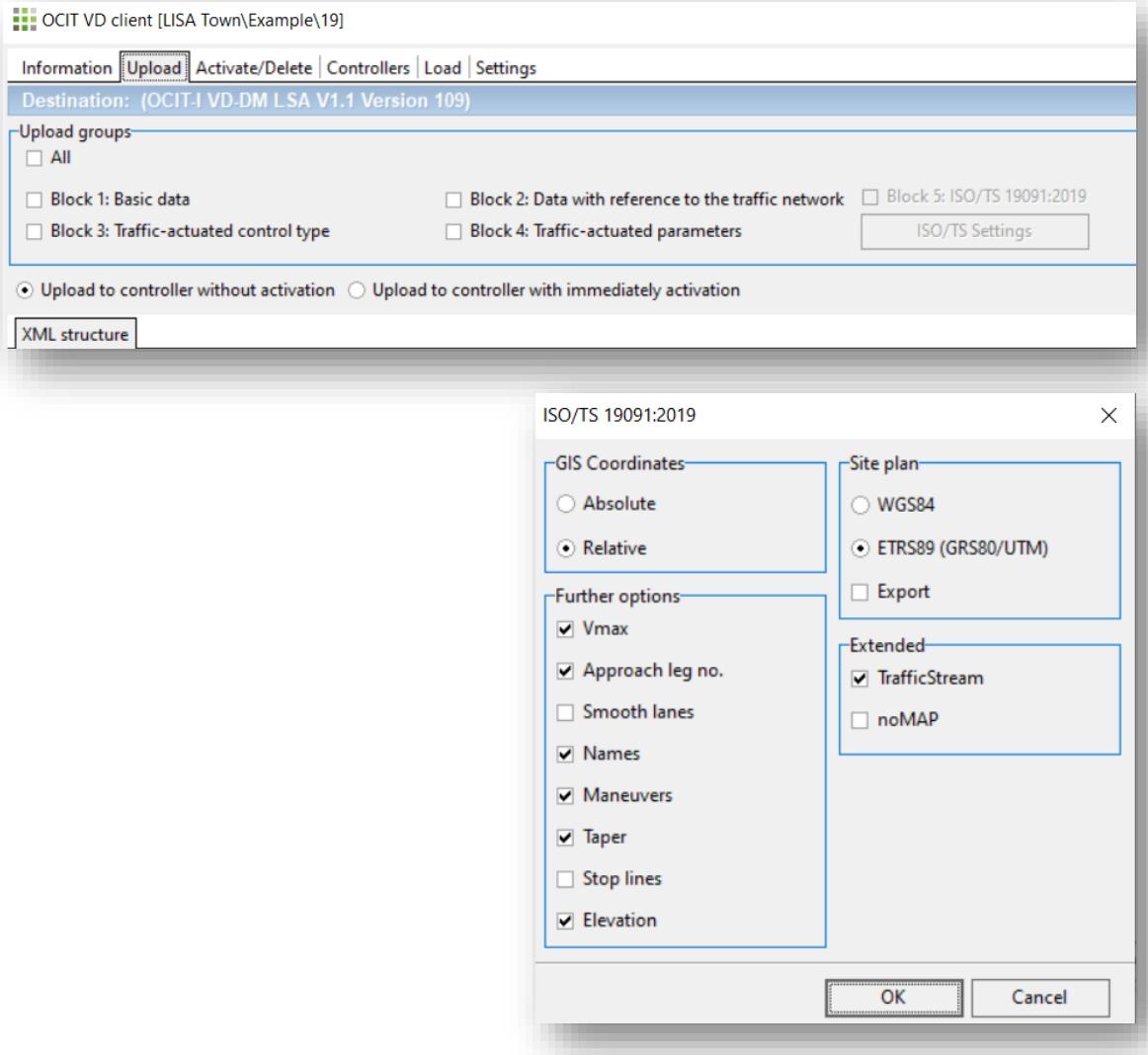
- ▶ Automatic generation of public transport test routines with cyclic public transport registrations
- ▶ New action in the test routine: PT telegram on green
- ▶ Random routine: copy a value to the entire column

# Logic and Debugging



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

# Upload



- ▶ MyCity remote upload
- ▶ OCIT-C remote upload
- ▶ OCIT-C XML export
- ▶ Extensions and adjustments in MAP export
- ▶ Automatic program selection for simulation runs can be defined in VISSIM

Description of the LISA C-ITS Library Version 2.0

SCHLOTHAUER & WAUER 

## DESCRIPTION OF THE LISA C-ITS LIBRARY 2.0

This additional library can only be used together with OML 3.1 or higher.

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Send SREM

Station ID	Intersection ID	Request ID	Eta [s]	Eta Duration [s]	Priority request type	Transit vehicle status	Delta time (delay positiv/early negative) [s]	Veh role	Veh Sub-role	Importance level	Inbound
111	0	1	30		priorityRequest		0	publicTransport	UnKnown	UnKnown	Leg 1
111	0	2	55		priorityRequest		0	publicTransport	UnKnown	UnKnown	Leg 3
111	0	1			priorityCancellation		0	publicTransport	UnKnown	UnKnown	Leg 1
111	0	2			priorityCancellation		0	publicTransport	UnKnown	UnKnown	Leg 3

- ▶ New C-ITS library 2.0 with SREM and SSEM functions
- ▶ Test site extension: message generator for CAM and SREM messages
- ▶ Extension of the C-ITS message list