

Naming of elements in RailSys Model

1. Nodes

- a) All nodes, which represents elements mentioned below, must be described in column 'name' according to table below:

No.	Type of element	Element	Attribute „name”	Example	
1	Track geometry and layout	Gradient change	profil		
2	Track geometry and layout	Radius change	plan		
3	Track geometry and layout	joint of two lines	PSL		
4	Change of kilometration	Change of kilometration	zmianaKm		
5	Points and crossings	Set of points and crossing	[3 * digit, ' ', 'Rz' 'Rpj' 'Rpd' 'Rps' 'Rlj' 'Rpd' 'Rps' 'Rkp' 'Rkpd' 'St' 'Sc';	054 Rkp 001 Rz 123 Rkpd 004 St St Sc	
6	Points and crossings	Fouling point	3 * digit, 'ukres';	054 ukres	
7	Points and crossings	Beginning of set of points	3 * digit, 'początek';	054 poczatek	
8	Signals	Signal	'Swjz' 'Swyj' 'Sdr' 'Swsz' 'So' 'Son' 'Ss' 'Ssn', ' ', name of signal, ['W1'], ['W18'], ['W20'], ['W21'];	Swjz A Sdr J3 W20 W21 Ss 1052 W18 Ssn 368N W1	If at the mast of signal sign W1, W18, W20 or W21 is placed, it should be marked in name of signal in RailSys.
9	Presignals	Presignal	'To ', name of signal;	To A	
10	Speed board	Change of max speed	Vdrog		
11	Speed board	Permanent speed restriction	Vogr		
12	Speed board	End of section lower speed indicated by signal	Vsem		

Rules of naming set of points, crossings and signals are described in EBNF notation:
https://en.wikipedia.org/wiki/Extended_Backus%E2%80%93Naur_Form.

b) Data source and date of preparation the data source must be described for all nodes, which represents elements mentioned above, according to table below. Date of preparation the data source is included at:

- Information box at schematic plans or construction documentation,
- File name for SKRJ/POS data,
- Date of modification of file for excel lists of switches.

No.	Attribute	Content	Description	Values
1	Data source	Source of data	number	acc. to table below
2	Description	Track number	number	1 for track 1 2 for track 2 etc.
3	Description 2	Date of data	YYYY-MM-DD	1986-07-13 acc. to table below

Source	ID in column Data source	Date of data in column Description 2
POS/SKRJ data	0	date of the export
points table	1	PKP - date of saving
EWI2	1e	date of saving
track layout schematic plans (DROGOWY)	2a	date of the plan - date of the last check
signalling schematic plans (SRK)	2b	date of the plan - date of the last check
construction documentation (BUDOWLANY)	2c	date of the plan - date of the last check
number of switch is based at Semaforek.pl, but kilometer is based at points table	3	date of saving the switch table
km estimated by RMCon	4	
Solution register table RMCon/PKP	5	Data of solution
platform table	6	date of saving
google maps/geoportal measurement	7	
film	8	date of saving
geometry data from IZ	9	date of saving
signals localization table	10	date of saving

2. Set point types

All set of points and crossings should be assigned to point type. Point types must be described a radius and a gradient of switch or crossing.

No.	Type of switch	Name of type	Example
1	Normal set of points (Rz), three-way switches (Rpj, Rpd, Rps), single-slip switch (Rkp), double-slip switch (Rkpd)	'Rz' 'Rkp' 'Rkpd' 'Rpj' 'Rpd' 'Rps', '- ', radius, '- ', gradient;	Rkpd-190-1:9

2	Curved switches (rozjazdy łukowe: Rłj, Rłd, Rłs)	Rłj' 'Rld' 'Rls', '- ', radius, '/', radius, '- ', gradient;	Rlj-765/302-1:12
3	Crossing	'St', '- ', gradient;	St-1:4,44
4	Crossing in scissors crossover	'Sc'	Sc

3. Stations

Stations must be described according to table below:

No	Attribute	Description	Example
1	Name	"Nazwa na wykres" field from SKRJ dictionary "Obiekty" + type of station	Jaktorów PO
2	Abbr	„Id obiektu” field from SKRJ dictionary „Obiekty”	34322
3	Name2	"Nazwa na wykres" field from SKRJ dictionary "Obiekty"	Jaktorów
4	Abbr2	„Kod obiektu” field from SKRJ dictionary „Obiekty”	34322
5	Km	Station axis from	

4. Station boundaries and track numbers

Station boundaries must be described according to table below:

No	Atrybut	Description	Example
	Line track	According to track number from track layout schemas	1 2 3ŚR 3M

5. Stopping locations

Stopping locations must be described according to table below:

Lp.	Atrybut	Description	Values
	Stopping location (SL)	letter	N – for stopping locations in uneven direction O – for station axis P – for stopping locations in even direction
	Track number	number	According to track layout schemas
	Effective length	number	For signals – feasible length of track, For platforms – feasible length of platform edge

- Signals should be stopping points. Name of signal with stopping function should be compatible with signal name, eg. N203.
- If signal is placed at platform, additional stopping point should be placed 1 meter before signal for passenger trains.

6. Lines

Number of lines must be described according to table below:

No	Atrybut	Description	Example
1	Abbreviation	3 * digit	001 023 182
2	Name	station1, ' - ', station2	KATOWICE - LEGNICA

Name of line should be written by big letters.

7. Global area

Global areas should have names and abbreviations similar to name of main station, which is placed into global area.

No	Atrybut	Description	Example
1	Abbreviation	Text string	GDYGLO
2	Name	Text string	Gdańsk Osowa R1 PZS

Because in POS database there is no abbreviations, abbreviation of global area should be invented.

8. Speed profiles

Please use specified speed profiles:

No	Name of speed profile	Name in POS	Description
1	Base	P	Passenger trains
2	1	T	Freight trains
3	2	A	Light diesel/electric multiple units

9. Interlockings

According to interlocking matrix.