

Type	Train Simulator 2019 - Addon
Author	Benjamin Ebrecht
Version	1.0
Date	22.08.2019
Contact	ebrecht@trainteam.berlin



Preamble

Dear customer,

we thank you for your interest in our AddOn „Scenario pack Vol. 3“. The present AddOn is an eminently special implementation.

After having success with the first two scenario packs, we come up with some new improvements that we let flow into the third scenario pack. We are proud to present this outstanding large piece of software after an unexpected long time of development. The numbers of about 100 wagons and 500 AI vehicles beat all of our previous addon records. Our regular customers who already own the first scenario packs will have to discover a lot, as well: the vehicle pool is expanding of 8 new engine classes, about 50 new engine paintworks and 13 new wagon models with several paintings - all in all 175 novelties.

We are able to pepping our scenarios based on this huge vehicle pool. We can arrange services in operation more realistic and show new operational situations. On top we deliver new objects for forming the scenery - we increase the number of our construction work set objects as well as delivering new PZB magnets and vegetation objects...

In short: come with us on a journey along the tracks around the railway spot of Seddin. The focus of this addon is of course on operating on the tracks to this outstanding railway yard that we want to show in manifold situations. Every scenario is telling its own chapter of the large repertoire of the railway system, decorated with a lot of local storytelling.

These very complex scenarios are pushing the envelope of Train Simulator - but they are balanced in resources in a time-consuming way. However - if you suffer "dump" crashes, feel free to contact our support forum and the FAQ. We plan to create further German Train Simulator addons. So feel invited to have a look at our forum <http://www.trainteam.berlin/forum> and our facebook page <https://www.facebook.com/TrainTeamBerlin> from time to time. In this sense, we wish you as much pleasure with this AddOn as we had while creating it.

TrainTeamBerlin
 Berlin, August 2019

Content

Preamble..... 1

The team and acknowledgements 3

System requirements 4

Installation & Configuration..... 4

Vehicles 5

 Double deck coaches ("Innovation coaches")..... 5

 Double deck coaches ("DBuz")..... 7

 Married-Pair-Coaches 12

 n-Coaches 13

 Falns-Wagons 15

 Fas-Wagons 15

 TTB Rmms 662..... 16

More (AI-)Vehicles 17

 ICE 1..... 17

 ICE-T 19

 Class 101 21

 Class 114/143 22

 Class 146 + InterConnex..... 24

 Class 151 25

 Class 152 26

 Class 145 / 146 / 185 27

 Vectron: Class 193 / 247 30

 Class 218.8 31

 Class 219 / 229 32

 Class 231 - 234..... 34

 Class 423 35

 Class 481 36

 Class 650 37

 Subway Type A3L..... 38

 IC-Coaches 39

 Güterwagen..... 41

 Museum coaches..... 44

Scenario Objects 45

Scenarios..... 47

FAQ: 64

The team and acknowledgements

The team feels free to introduce itself at this place

Software: TrainTeamBerlin

Distribution: TrainTeamBerlin

Benjamin Ebrecht	3d models, sound, scripting, repaints, scenarios, manual
Halycon-Media and Ist authors	archive models, sounds
BoboMSTS	3d models
Jonas Flemming	scenarios
Michael Pabst	scenarios
Sebastian Hellmann	train destination generator (www.mytrainsim.de)
Markus Schmidt	model of BR481
Christian Kirmse	double deck coaches improvements and train destination displays
Ben Duven	announcements
Matthias J.	repaints
Denny140	repaints
Supergamer11267	

Furthermore we want to thank all other (partly anonymous) helpers and licensors who made a contribution to the success of this addon! Another special thanks goes to all tireless beta testers and courage-granters - you all have your portion of this detail-enamoured realization.

One or more textures on 3D models used in this addon have been created with images from CGTextures.com. These images may not be redistributed by default, please visit www.cgtextures.com for more information.

System requirements

Processor (CPU):	DualCore 3 GHz
Memory (RAM):	8192 MB
Graphic board:	DirectX 10-ready or better, 1024 MB physical graphic memory
Hard disc spacer:	2600 MB
Sound board:	Soundblaster or compatible gamer card

- Software:
- Train Simulator 2019
 - Belonging "European Loco & Asset Pack" (installed automatically if Railworks TS2012 or earlier was used)
 - Route addon "Mighty freight Seddin"

 - strongly recommended: TrainTeamBerlin "Railworks PlusPack Vol. 1" respectively the four standalone BR101, BR143, BR151 und BR294 PlusPack

This AddOn has been developed for Train Simulator 2019.

Important! Please note that you need the actual update of each required addon.

Installation & Configuration

Installation:

You have to execute the automatic installation routine (exe-format) for installing „Scenario package Vol. 3“. Follow the instructions and set your Railworks main folder when asked for. This folder is detected automatically in most cases. You finished the installation with doing this.

Uninstallation:

If you want to uninstall "Scenario package Vol. 3 ", just run the uninstall routine which you can find in the start menu: Programs → TrainTeamBerlin → Szenariopack Seddin → „Deinstallation“. Follow the instructions. Now the addon is removed from your PC.

Important: Please note that several assets are used together by different addons. The uninstallation of this addon deletes all files that are connected to it. This can lead to the situation that you will have to re-install another TrainTeamBerlin addon - regardless if it was already installed.

Vehicles

In the following we will present you the delivered vehicles and its specific functions.

Double deck coaches ("Innovation coaches")



→ activation folder in scenario editor: **TrainTeamBerlin \ TTB_B-WT_KI-Verkehr**

→ Set of 9 DB coaches

→ highly detailed original sound

→ available vehicles and paintings:

paintings:

- "DB Regio" from the year 2009 with "Regio DB"-logo
- "RE160" until 2008/2009 with "RE160"-logos
- "Hanse-Express" with its logos

vehicles:

- DBpza780 (2nd class middle coach)
- DABpza785 (1st class middle coach)
- DBpbzfa765/766 (control car, not driveable)

→ predefined Consists delivered

→ Train destination display (pixel accurate original) can be chosen via DynamicNumbering

- wagon number contains a letter that preselects a train destination
- available destinations:

A	RE5 Falkenberg (Elster)	K	RE4 Luckenwalde
B	RE5 Lutherstadt Wittenberg	L	RE4 Ludwigsfelde
C	RE5 Rostock	M	RE4 Jüterbog
D	RE5 Stralsund	N	RE4 Wismar
E	RE5 Neubrandenburg	O	RE4 Wittenberge
F	RE5 Jüterbog	P	RE4 Lutherstadt Wittenberg
G	RE5 Halle (Saale)	Q	RE4 Falkenberg (Elster)
H	RE5 Berlin Gesundbrunnen	R	RE4 Rathenow

I	RE5 Berlin Südkreuz	S	RE4 Stendal
J	RE5 Berlin Hbf	T	RE4 Schwerin Hbf
		U	RE4 Berlin-Spandau
		V	RE4 Berlin Hbf
		W	RE4 Berlin Südkreuz
X	RE3 Stralsund Hbf	e	RE9 Berlin Schönefeld Flughafen
Y	RE3 Schwedt	f	RE9 Flughafen Berlin-Brandenburg BER
Z	RE3 Elsterwerda	g	RE9 Berlin Südkreuz
a	RE3 Wünsdorf-Waldstadt	h	RE9 Berlin Hbf
b	RE3 Berlin Gesundbrunnen		
c	RE3 Berlin Südkreuz		
d	RE3 Berlin Hbf		
i	RE7 Belzig	n	RB22 Michendorf
j	RE7 Berlin Ostbahnhof	o	RB22 Potsdam Hbf
k	RE7 Berlin Wannsee	p	RB22 Berlin Schönefeld
l	RE7 Dessau	q	RB Lutherstadt Wittenberg
m	RE7 Wünsdorf Waldstadt	r	RB Leipzig Hbf
t	Nicht einsteigen	s	RB Bitterfeld
u	Ersatzzug		
v	[leeres Zuglaufschild]		

Double deck coaches ("DBuz")



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_DBuz**
- Set of 2 different double deck coaches of DB Regio
- highly detailed original sound
- available vehicles and paintings:
 - paintworks:
 - "DB Regio" around 2009 with "Regio DB"-logo
 - Fahrzeuge:
 - DBuza 747.1 (2nd class middle car, modernised: 120km/h, top-hung windows, wheel brakes, year of modernisation 1995/1996)
 - DABbuzfa760 (1st/2nd class control car, 140km/h, top-hung windows, wheel brakes, years of production 1992/1993)
 - variations:
 - one fully-fledged car for player trains and one simplified/resource optimised for AI consists each (naming suffix "KI")
 - AI control car with driver as additional variation
- predefined Consists delivered
- Train destination display and train movement signs can be chosen via DynamicNumbering
 - wagon number of middle cars contain a letter that preselects a train destination
 - wagon number of control cars contain two letters. The first preselects a train destination, the second preselects decal variations:
 - available codes for selecting sidelong decals of the control car:
 - "A" - big decal "AirportExpress"
 - "R" - decal "Regio DB"
 - " " - no decal
 - available destinations:

A	RE5 Falkenberg (Elster)	K	RE4 Luckenwalde
B	RE5 Lutherstadt Wittenberg	L	RE4 Ludwigsfelde
C	RE5 Rostock	M	RE4 Jüterbog
D	RE5 Stralsund	N	RE4 Wismar
E	RE5 Neubrandenburg	O	RE4 Wittenberge
F	RE5 Jüterbog	P	RE4 Lutherstadt Wittenberg
G	RE5 Halle (Saale)	Q	RE4 Falkenberg (Elster)
H	RE5 Berlin Gesundbrunnen	R	RE4 Rathenow
I	RE5 Berlin Südkreuz	S	RE4 Stendal
J	RE5 Berlin Hbf	T	RE4 Schwerin Hbf
		U	RE4 Berlin-Spandau
		V	RE4 Berlin Hbf
		W	RE4 Berlin Südkreuz
X	RE3 Stralsund Hbf	e	RE9 Berlin Schönefeld Flughafen
Y	RE3 Schwedt	f	RE9 Flughafen Berlin-Brandenburg BER
Z	RE3 Elsterwerda	g	RE9 Berlin Südkreuz
a	RE3 Wünsdorf-Waldstadt	h	RE9 Berlin Hbf
b	RE3 Berlin Gesundbrunnen		
c	RE3 Berlin Südkreuz		
d	RE3 Berlin Hbf		
i	RE7 Belzig	n	RB22 Michendorf
j	RE7 Berlin Ostbahnhof	o	RB22 Potsdam Hbf
k	RE7 Berlin Wannsee	p	RB22 Berlin Schönefeld
l	RE7 Dessau	q	RB Lutherstadt Wittenberg
m	RE7 Wünsdorf Waldstadt	r	RB Leipzig Hbf
t	Nicht einsteigen	s	RB Bitterfeld
u	Ersatzzug		
v	[leeres Zuglaufschild]		

IC-Coaches



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_IC-Wagen01**
- set with 37 express coaches of different types and paintings
- complex built original sound
- random-offset-triggered opening and closing doors
- available coaches:

Identifier	Description	Available paintings
Aimz261	IR-Coach 1st Class	(DB, IR, VR)
Apmz121	IC-Coach 1st Class	(DB, IC, IC2)
ARkimbz266	IR-BordBistro	(DB, IR)
Avmz109	IC-Coach 1st Class	(DB, IC, IC2)
Bimz264	IR-Coach 2nd Class	(DB, IR, VR)
Bimdz268	IR-Coach 2nd Class, bike cabin	(DB, IR, VR)
Bimdzf271	IR-Control car	(DB, IR, IC, IC2)
Bpmbdzf296	IC-Control car	(DB, IC2)
Bpmbkz294	IC-Coach, 2nd Class, SnackPoint	(DB, IC, IC2, VR)
Bpmbz295	IC-Coach, 2nd Class, wheelchair-accessable	(DB, IC, IC2)
Bpmdz293	IC-Coach, 2nd Class, bike cabin	(IC)
Bpmz294	IC-Coach, 2nd Class	(DB, IC, IC2)
Bvmsz186	IC-Coach, 2nd Class, pressurized	(DB, IC, IC2)

Description of paint schemes:

DB	ICE-Scheme, white + red stripe
IR	InterRegio-Scheme, blue/white
IC	InterCity-Scheme with contrast stripe
IC2	InterCity-Schema traffic red without contrast stripe
VR	traffic red with white stripe

→ Coaches with sideways passenger information display can be labelled via DynamicNumbering. The wagons have the following numbering scheme:



0,0,618085-944004ABCDEEEEEFFFG

- A - departure location
- B - location on route
- C - destination location
- G - frame and wagon symbol (always "+" if display is enabled)
- D - train category
- E - figures of train number (thin)
- F - figures of wagon number (thick)

Available inscriptions:

- + - frame and wagon symbol
- _ - [empty]

Ziffern (dünn)		Ziffern (fett)		Zuggattungen	
0	0 thin	=	0 bold	a	ICE
1	1 thin	!	1 bold	b	IC
2	2 thin	"	2 bold	c	EC
3	3 thin	§	3 bold	d	IR
4	4 thin	\$	4 bold	e	D
5	5 thin	%	5 bold	f	UEx
6	6 thin	&	6 bold	g	Sdz
7	7 thin	/	7 bold	h	IRE
8	8 thin	(8 bold	i	RE
9	9 thin)	9 bold	j	RB

Available locations:

l - Berlin Südkreuz	R - Wiesbaden
m - Berlin Hbf (tief)	S - Koblenz
n - Berlin Ostbahnhof	T - Stuttgart Hbf
o - Berlin Gesundbrunnen	U - Augsburg
p - Hamburg Hbf	V - Karlsruhe Hbf
q - Hamburg Altona	W - Göttingen
r - Stralsund	X - Dresden Hbf
s - Rostock Hbf	Y - Praha hl. n.
t - Warnemünde	Z - Brno hl. n.
u - Kopenhagen	ä - Budapest-Keleti
v - Ostseebad Binz	ö - Wien Westbahnhof
w - Ostseebad Heringsdorf	ü - Salzburg
x - Westerland (Sylt)	ß - Zürich
y - Dagebüll (Mole)	Ä - Basel SBB
z - Norddeich Mole	Ö - Interlaken Ost
A - Emden	Ü - Kiel
B - Osnabrück Hbf	- - Flensburg
C - Münster Hbf	. - Aarhus
D - Schiphol	, - Freiburg
E - Amsterdam CS	: - Oldenburg

F - Lutherstadt Wittenberg	; - Garmisch-Partenkirchen
G - Leipzig Hbf	\ - Innsbruck
H - Erfurt Hbf	[- Wittenberge
I - Nürnberg Hbf] - Ludwigsfelde
J - München Hbf	{ - Trier
K - Hannover Hbf	} - Luxemburg
L - Dortmund Hbf	< - Altenburg Hbf
M - Düsseldorf Hbf	> - Bad Rinckenburg
N - Köln Hbf	- Köblitz Hbf
O - Köln/Bonn Flugh	° - Wildau
P - Frankfurt/Main Hbf	2 - Hosvenn
Q - Frankfurt/Main Flugh	3 - Wismar

→ The IR-Control car has got a nose cover. This can be opened or closed. You can choose the state via Dynamic Numbering, too. An "O" stands for opened (default state) and a "C" stands for "closed".

Married-Pair-Coaches



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_B-WT_KI-Verkehr**
- fixed coupled wagon units (mostly with 4 or 6 coaches) of the Nord-Ostsee-Bahn
- complex sound
- Train destination display can be chosen via DynamicNumbering
 - wagon number contains a letter that preselects a train destination
 - available destinations:

a	-	Herzlich Willkommen
b	-	Berlin Hbf.
c	-	Leipzig Hbf.
d	-	Warnemünde
e	-	Rostock Hbf
f	-	Nicht Einsteigen

- available paintings: NOB and InterConnex with advertising
- predefined consists delivered

n-Coaches



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_n-Wagen**
- Set of 8 different DB Regio coaches
- highly detailed original sound
- available vehicles and paintings:

Lackierungen:

- SI silver with peacock moth pattern (delivery state)
- MG mint green / white
- VR traffic red

Fahrzeuge:

Vehicle	Description	Available Paintings
ABnrz417	1st class middle coach, modernized, DB AG	MG, VR
Bnrz446	2nd class middle coach, modernized, DB AG	MG, VR
Bnrz724	2nd class middle coach, unmodernized, DB AG	SI
Bnrz477	Control car "Karlsruher Head", modernized, DB AG	MG, VR
Bnrz483	Steuerwagen "Wittenberger Head", DB AG	VR

→ every middle coach has got three letters in ist dynamic number. One can configure ist functionality via Dynamic numbering. The numbering scheme is

508031-344038KB-

- the first letter configures the brake type:
 - "K" - block brake
 - "S" - wheel disc brake
- the second letter configures the warn beeper for the door closing procedure:
 - "B" - with door warning beeper
 - "-" - without door warning beeper
- the third letter configures the graffiti on the wagon:
 - "G" - with graffiti
 - "-" - without graffiti

→ the train destination display can be configured on control cars via a 4th letter in the wagon number. The control car numbering scheme is:

508082-340757KB-a

- wagon number contains a 4th letter that preselects a train destination
- available destinations:

a	München Hbf	r	Hamburg Altona
b	München Pasing	s	Hamburg Hauptbahnhof
c	Augsburg Hbf	t	Hamburg Harburg
d	Ingolstadt	u	Lüneburg
e	Donauwörth	v	Uelzen
f	Ulm Hbf	w	Celle
g	Kempten	x	Hannover Hbf
h	Weilheim	y	Lehrte
i	Schongau	z	Gifhorn
j	Kochel	1	Braunschweig Hbf
k	Garmisch-Partenkirchen	2	Helmstedt
l	Rosenheim	3	Hildesheim
m	Freilassing	4	Goslar
n	Salzburg	5	Bremen Hbf
o	S3 München Hbf	6	Nienburg (Weser)
p	S3 Maisach	7	Hameln
q	S3 Mammendorf	8	Lübeck Hbf
*	Mering	9	Kiel Hbf
	Mammendorf	0	Flensburg
		-	Cuxhaven
		+	Büchen
		#	Neumünster
A	Altenburg Hbf	N	Berlin Hbf
B	Bad Rinckenburg	O	Berlin Gesundbrunnen
C	Wildau	P	Berlin Südkreuz
D	Hosvenn	Q	Berlin Schönefeld Flughafen
E	Köblitz Hbf	R	Ludwigsfelde
F	Nicht Einsteigen	S	Jüterbog
G	Trier Hbf	T	Luckenwalde
H	Luxemburg	U	Lutherstadt Wittenberg
		V	Potsdam Hbf
I	Düsseldorf Hbf	W	Werder (Havel)
J	Köln Hbf	X	Michendorf
L	Aachen Hbf	Y	Nauen
M	Hamm (Westf)	Z	RegionalBahn

Falns-Wagons



- activation folder in scenario editor: **GermanRailroadsRW \ Rollmaterial**
- bulk cargo wagon with DynamicNumbering and automatically placed end-of-train signals
- complex built original sound
- 14 painting versions:

Falns 01-05	DB, brown, partly graffiti
Falns 06-08	PKP, old, blue/yellow
Falns 09-10	PKP, old, brown
Falns 11-14	PKP, actual, blue

Fas-Wagons



- activation folder in scenario editor: **GermanRailroadsRW \ Rollmaterial**
- bulk cargo wagon with DynamicNumbering and automatically placed end-of-train signals
- complex built original sound
- four versions available (different textures, DB Cargo / Railion)

TTB Rmms 662



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_GW_Rmms662**
- heavy duty wagon with DynamicNumbering and automatically placed end-of-train signals, couplings and brake hoses
- complex built original sound
- 6 wagons available:
 - empty
 - load cable drum
 - load steel slabs
 - load tank Leopard L6A2
 - load excavator
 - load bulldozer

More (AI-)Vehicles

The trains described in the following are designed as AI-trains (AI = artificial intelligence) and just intended for usage in the computer-driven traffic schemes of scenarios. The traction vehicles are NOT drivable by the player. The wagons are technically and functionally not at the player train detail level - but you can use them in player trains as well, if you want to.

ICE 1



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_ICE1_KI**
- ICE1-trainset with DynamicNumbering and original sound
- Predefined consists:

TTB_ICE1_Norm	ICE1, normal dirt
TTB_ICE1_Clean	ICE1, clean
TTB_ICE1_Dirt	ICE1, heavy dirt
TTB_ICE1_DB	ICE1, without Redesign, with purple contrast stripe, normal dirt
TTB_ICE1_M_Norm	ICE1 M (with SBB-Pantograph), normal dirt
TTB_ICE1_M_DB	ICE1 M (with SBB-Pantograph), without Redesign, with purple contrast stripe, normal dirt

→ Selection of forename via DynamicNumbering - the last place of a wagon number is a letter - this can be adjusted as follows:

A	[no forename]	X	Tz 156 – Heppenheim/Bergstraße
B	Tz 101 – Gießen	Y	Tz 157 – Landshut
C	Tz 103 – Neu-Isenburg	Z	Tz 158 – Gütersloh
D	Tz 104 – Mühldorf a. Inn	a	Tz 159 – Bad Oldesloe

E	Tz 105 – Offenbach am Main	b	Tz 160 – Mülheim an der Ruhr
F	Tz 106 – Itzehoe	c	Tz 161 – Bebra
G	Tz 107 – Plattling	d	Tz 162 – Geisenheim/Rheingau
H	Tz 108 – Lichtenfels	e	Tz 166 – Gelnhausen
I	Tz 109 – Aschaffenburg	f	Tz 167 – Garmisch-Partenkirchen
J	Tz 110 – Gelsenkirchen	g	Tz 168 – Crailsheim
K	Tz 111 – Nürnberg [110]	h	Tz 169 – Worms
L	Tz 112 – Memmingen	i	Tz 171 – Heusenstamm
M	Tz 113 – Frankenthal/Pfalz	j	Tz 174 – Zürich
N	Tz 114 – Friedrichshafen	k	Tz 176 – Bremen
O	Tz 115 – Regensburg	l	Tz 177 – Basel
P	Tz 116 – Pforzheim	m	Tz 178 – Bremerhaven
Q	Tz 117 – Hof	n	Tz 181 – Interlaken
R	Tz 119 – Osnabrück	o	Tz 182 – Rüdeshheim am Rhein
S	Tz 120 – Lüneburg	p	Tz 183 – Timmendorfer Strand
T	Tz 152 – Hanau	q	Tz 184 – Bruchsal
U	Tz 153 – Neumünster	r	Tz 185 – Freilassing
V	Tz 154 – Flensburg	s	Tz 187 – Fulda
W	Tz 155 – Rosenheim	t	Tz 188 – Hildesheim
		u	Tz 189 – Castrop-Rauxel
		v	Tz 190 – Ludwigshafen am Rhein

ICE-T



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_ICE-T_KI**
- ICE-T-trainset Class 411 with DynamicNumbering and original sound
- realistic working, active tilting technology
- predefined consists delivered:

TTB ICT 1x	ICE-T, half train
TTB ICT 2x	ICE-T, full train

- you have to name all vehicles of one EMU with the same EMU-number for a realistic look (DynamicNumbering).

- blind windows placed automatically at vehicles of 1st line (Tz1101-Tz1132)
- ICE-logo placed automatically on end trains of some EMUs (Tz 1107, 1112, 1125, 1127, 1128, 1130, 1153)
- ÖBB cooperation logo placed automatically at adequate (Tz 1101- 1105, 1107 - 1113, 1119)

→ Tz-number = serial continuous numbering of EMUS. Tz1119 consists of the vehicles 411 019, 411 119, 411 219, ... and so on

- via DynamicNumbering you can control additional functions:

Numbering scheme: 93805411_5142Op1a-

O:	nose cover state → "O": opened, "C": closed
p1:	pantograph state → "p1": raised, "p0": lowered
-:	train destination displays - available:
	"- " ICE 1719 Berlin - München
	"+ " ICE 1556 Dresden - Wiesbaden
a:	forename - ALL realistic forenames are available:

a	-	without forename	A	Tz1126	Leipzig
b	Tz1101	Neustadt an der Weinstraße	B	Tz1127	Weimar
c	Tz1102	Neubrandenburg	C	Tz1128	Reutlingen
d	Tz1103	Paderborn	D	Tz1129	Kiel
e	Tz1104	Erfurt	E	Tz1130	Jena
f	Tz1105	Dresden	F	Tz1131	Trier
g	Tz1106/1159	Passau	G	Tz1132	Wittenberge
h	Tz1107	Pirna	H	Tz1151	Elsterwerda
i	Tz1108	Berlin	I	Tz1152	Travemünde
j	Tz1109	Güstrow	J	Tz1153	Ilmenau
k	Tz1110	Naumburg (Saale)	K	Tz1154	Sonneberg
l	Tz1111	Hansestadt Wismar	L	Tz1156	Waren (Müritz)
m	Tz1112	Freie und Hansestadt Hamburg	M	Tz1157	Innsbruck
n	Tz1113	Hansestadt Stralsund	N	Tz1158	Falkenberg/Elster
o	Tz1114/1172	Bamberg	O	Tz1160	Markt Holzkirchen
p	Tz1115/1176	Coburg	P	Tz1161	Andernach
q	Tz1116/1173	Halle (Saale)	Q	Tz1162	Vaihingen an der Enz
r	Tz1117	Erlangen	R	Tz1163	Ostseebad Binz
s	Tz1118	Plauen / Vogtland	S	Tz1164	Rödental
t	Tz1119	Meißen	T	Tz1165	Bad Oeynhausen
u	Tz1120	Gotha	U	Tz1166	Bingen am Rhein
v	Tz1121	Homburg / Saar	V	Tz1167	Traunstein
w	Tz1122	Torgau	W	Tz1169	Tutzing
x	Tz1123	Hansestadt Greifswald	X	Tz1170	Prenzlau
y	Tz1124	Hansestadt Rostock	Y	Tz1171	Oschatz
z	Tz1125	Arnstadt	Z	Tz1175	Villingen-Schwenningen
			<	Tz1177	Rathenow
			>	Tz1178	Ostseebad Warnemünde

Class 101



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_IC_KI**
- set of 13 versions of class 101 with DynamicNumbering and original sound
- available locos:

101 016	Unicef
101 034	"in Form"
101 036	PEP (pricing system)
101 037	Buffet
101 037	"Eisenbahner mit Herz"
101 047	fire brigade
101 060	Bundespolizei
101 067	"Nett Hier"
101 070	Adler Mannheim
101 101	Europe
101 102	Gegen Hass und Gewalt blue
101 141	Gegen Hass und Gewalt black
101 144	Hertha BSC

Class 114/143



- activation folder in scenario editor: **TrainTeamBerlin \ Berlin-Leipzig**
- Set of 5 locos of the classes 114 / 143 with original sound
- pantograph raised automatically:
 - normal: back pantograph
 - 1. loco of double traction: front pantograph
 - loco marked as "defect": both pantographs lowered
- delivered versions:
 - 114 015 traffic red, DB Regio, train destination display
 - 143 344 MEG, red
 - 143 589 traffic red, DB Regio, without train destination display
 - 143 877 traffic red, DB Regio, with train destination display
 - 143 911 RBH, blue/silver
- Train destination display (pixel accurate original) can be chosen via DynamicNumbering
 - wagon number contains a letter that preselects a train destination
 - available destinations:

A	RE5 Falkenberg (Elster)	K	RE4 Luckenwalde
B	RE5 Lutherstadt Wittenberg	L	RE4 Ludwigsfelde
C	RE5 Rostock	M	RE4 Jüterbog
D	RE5 Stralsund	N	RE4 Wismar
E	RE5 Neubrandenburg	O	RE4 Wittenberge
F	RE5 Jüterbog	P	RE4 Lutherstadt Wittenberg
G	RE5 Halle (Saale)	Q	RE4 Falkenberg (Elster)
H	RE5 Berlin Gesundbrunnen	R	RE4 Rathenow
I	RE5 Berlin Südkreuz	S	RE4 Stendal
J	RE5 Berlin Hbf	T	RE4 Schwerin Hbf
		U	RE4 Berlin-Spandau
		V	RE4 Berlin Hbf
		W	RE4 Berlin Südkreuz

X	RE3 Stralsund Hbf	e	RE9 Berlin Schönefeld Flughafen
Y	RE3 Schwedt	f	RE9 Flughafen Berlin-Brandenburg BER
Z	RE3 Elsterwerda	g	RE9 Berlin Südkreuz
a	RE3 Wünsdorf-Waldstadt	h	RE9 Berlin Hbf
b	RE3 Berlin Gesundbrunnen		
c	RE3 Berlin Südkreuz		
d	RE3 Berlin Hbf		
i	RE7 Belzig	n	RB22 Michendorf
j	RE7 Berlin Ostbahnhof	o	RB22 Potsdam Hbf
k	RE7 Berlin Wannsee	p	RB22 Berlin Schönefeld
l	RE7 Dessau		
m	RE7 Wünsdorf Waldstadt	q	RB Lutherstadt Wittenberg
t	Nicht einsteigen	r	RB Leipzig Hbf
u	Ersatzzug	s	RB Bitterfeld
v	[leeres Zuglaufschild]		

Class 146 + InterConnex



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_B-WT_KI-Verkehr**
- Class 146.2 plus fixed coupled wagon set (mostly 4 or 6 wagons) of the Nord-Ostsee-Bahn for building realistic consists of InterConnex-trains
- extensive original sound
- coach set abovementioned
- Train destination display can be chosen via DynamicNumbering
 - wagon number contains a letter that preselects a train destination
 - available destinations:

a	-	Herzlich Willkommen
b	-	Berlin Hbf.
c	-	Leipzig Hbf.
d	-	Warnemünde
e	-	Rostock Hbf
f	-	Nicht Einsteigen

- available locos:
 - 146 521 blue/yellow, sideways Connex-logo
 - 146 522 blue/yellow, InterConnex-ad
- predefined consists delivered

Class 151



- activation folder in scenario editor: **TrainTeamBerlin \ Berlin-Leipzig**
- set of 5 locos of the Class 151 with original
- pantograph raised automatically:
 - normal: back pantograph
 - 1. loco of double traction: front pantograph
 - loco marked as "defect": both pantographs lowered

- delivered versions:
 - 151 049 green, designated museum loco, state until 2008
 - 151 081 RBH, traffic red
 - 151 084 Railion, traffic red
 - 151 084 DB Cargo, traffic red
 - 151 123 RBH, blue/silver

Class 152



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_BR152_KI**
- set of 4 locos of the Class 152 with original
- preselection of pantograph via DynamicNumbering
 - the loco number contains the code "px", where x is a figure between 0 and 4
 - p0 = all pantographs lowered
 - p1 = front pantograph raised
 - p2 = back pantograph raised

- available locos :
 - 152 005 green, harvester advertising
 - 152 009 traffic red, Railion
 - 152 089 traffic red, Railion, no white front contrast painting
 - 152 111 traffic red, "Railion DB Logistics"

Class 145 / 146 / 185



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_Traxx_KI**
- set with 52 locos of the classes 145 and 185 with original sound
- preselection of pantograph via DynamicNumbering
 - the loco number contains the code "px", where x is a figure between 0 and 4
 - p0 = all pantographs lowered
 - p1 = front pantograph raised
 - p2 = back pantograph raised
 - p3 = outer front pantograph raised (only locos with 4 pantographs)
 - p4 = outer back pantograph raised (only locos with 4 pantographs)
- loco 145 031 has got a train destination display, selection via DynamicNumbering, too:

- a - leer
- b - Sonderzug
- c - Bitte nicht Einsteigen
- d - Moin moin

- loco 145 031 has got a train destination display, selection via DynamicNumbering, too

- | | |
|-------------------------|----------------------|
| a - Herzlich Willkommen | i - Trier Hbf |
| b - Berlin Hbf | j - DB Dienstfahrt |
| c - Leipzig Hbf | k - Ersatzzug |
| d - Warnemünde | l - Leerfahrt |
| e - Rostock Hbf | m - Nicht einsteigen |
| f - Norddeich (Mole) | n - Probefahrt |
| g - Koblenz Hbf | o - Sonderfahrt |
| h - Köln Hbf | p - Sonderzug |

- available locos:

TTB_145_008	DB AG, red, "Railion"
TTB_145_010	DB AG, red, "DB Cargo"
TTB_145_030	PRESS, blue

TTB_145_030	PRESS, blue, ad "Rasender Roland"
TTB_145_031	DB AG, red, with regio package (train destination display)
TTB_145_054	DB AG, red, without logos
TTB_145_059	DB AG, red, "Railion DB Logistics"
TTB_145_072	DB AG, red, big DB logo
TTB_145_086	MRCE, black
TTB_145_086	NIAG, blue/creamy
TTB_145_095	Captrain, white/neon green
TTB_145_CL001	Arcelor, pink/grey
TTB_145_CL002	Arcelor, orange
TTB_145_CL003	Rail4Chem, green, with ITL logo
TTB_145_CL004	Rail4Chem, green
TTB_145_CL206	RBH 206, blue/grey
TTB_146_551	White/red stripe, DB intercity engine for IC2, train dest. display
TTB_185_003	old loco chassis, DB AG, red, "Bombardier Traxx", 2 pantos
TTB_185_077	old loco chassis, DB AG, red, "Railion DB logistics", 2 pantos
TTB_185_125	old loco chassis, DB AG, red, big DB logos, 4 pantos
TTB_185_154	old loco chassis, DB AG, red, dirt, no logos, 2 pantos
TTB_185_155	old loco chassis, DB AG, red, no logos, crash buffers, 2 pantos
TTB_185_157	old loco chassis, DB AG, red, "Railion", dirt, crash buffers, 2 pantos
TTB_185_201	new loco chassis, DB AG, red, "Railion", 2 pantos
TTB_185_233	new loco chassis, DB AG, red, "Railion", 2 pantos
TTB_185_279	new loco chassis, DB AG, red, "Railion DB Logistics", 2 pantos
TTB_185_365	new loco chassis, DB AG, red, no sideways logo, 2 pantos
TTB_185_399	new loco chassis, DB AG, red, "DB + BT: 399 engines", 2 pantos
TTB_185_500	new loco chassis, Halycon, white, fictious, 4 pantos
TTB_185_507	new loco chassis, Captrain, white/neon green, 2 pantos
TTB_185_515	old loco chassis, Connex, blue/yellow, no logos, 2 pantos
TTB_185_516	old loco chassis, Connex, blue/yellow, NOB+Connex-logo, 2 pantos
TTB_185_517	old loco chassis, Rail4Chem, green/grey, 4 pantos
TTB_185_531	old loco chassis, Captrain, silver, 2 pantos
TTB_185_532	old loco chassis, Captrain green/white, "Dompteur gesucht", 4 pantos
TTB_185_534	old loco chassis, OHE, red/white, 2 pantos
TTB_185_542	old loco chassis, Rail4Chem, green/grey, "European Bulls", 4 pantos
TTB_185_543	old loco chassis, Rail4Chem, green/grey, "Transpetrol", 4 pantos
TTB_185_543	old loco chassis, Captrain, white/neon green, 4 pantos
TTB_185_548	old loco chassis, ITL, grey, 2 pantos
TTB_185_554	old loco chassis, MRCE, black/white flap, "MRCE Dispolok", 4 pantos
TTB_185_555	old loco chassis, MRCE, black, "mgw Service", 4 pantos
TTB_185_556	old loco chassis, MRCE, black, 4 pantos
TTB_185_557	old loco chassis, MRCE, black/white flap, "MRCE Dispolok", 4 pantos
TTB_185_562	new loco chassis, ITL, grey, 2 pantos
TTB_185_573	new loco chassis, black, "Neubauer", 4 pantos
TTB_185_574	new loco chassis, black, "Neubauer", 4 pantos
TTB_185_575	new loco chassis, HGK, turquoise/grey, mini logo, 4 pantos
TTB_185_577	new loco chassis, tuquois/grey, no logos, 4 pantos

TTB_185_582	new loco chassis, HGK, red, no logos, 4 pantos
TTB_185_583	new loco chassis, HVLE, orange/silver, 2 pantos
TTB_185_584	new loco chassis, HGK, red, big logo, 4 pantos
TTB_185_650	new loco chassis, ITL, red/white, 2 pantos
TTB_185_661	new loco chassis, Lokomotion, white/blue, Zebra "Paul", 2 pantos
TTB_185_662	new loco chassis, Lokomotion, white/blue, Zebra, 2 pantos
TTB_185_663	new loco chassis, Lokomotion, white/blue, Zebra "Equus Quagga Bavaricus", 2 pantos
TTB_185_666	new loco chassis, Lokomotion, white/red, Zebra, 2 pantos
TTB_185_674	new loco chassis, Rurtalbahnhof, grey, 2 pantos
TTB_185_696	new loco chassis, TXLogistik, grey, 2 pantos
TTB_185_CL003	old loco chassis, Connex, blue/yellow, big logo, 2 pantos
TTB_185_CL004	old loco chassis, Rail4Chem, blue/grey, 2 pantos
TTB_185_CL005	old loco chassis, Hoyer RAILSERV, blue/grey, 2 pantos
TTB_185_CL006	old loco chassis, Rail4Chem, green/grey, 2 pantos
TTB_185_CL007	old loco chassis, Veolia Transport, red/white, 2 pantos
TTB_185_CL008	old loco chassis, blue/grey, no logos, 2 pantos
TTB_185_CL009	old loco chassis, blue/grey, RAG, 2 pantos
TTB_186_130	new loco chassis, DB AG, turquoise/grey, no logos, 4 pantos
TTB_481_002	old loco chassis, ITL, black/red, 2 pantos
TTB_481_005	old loco chassis, blue/red, no logos, 2 pantos
TTB_482_016	old loco chassis, SBB Cargo, blue/red, 4 pantos
TTB_482_046	new loco chassis, SBB Cargo, blue/red, 4 pantos
TTB_485_003	old loco chassis, BLS Cargo, grey/colored, "Die Alpinisten", 4 pantos
TTB_485_003 (2019)	old loco chassis, BLS Cargo, grey/colored, "Die Alpinisten", 4 pantos, 2019
TTB_485_005	old loco chassis, BLS Cargo, grey/colored, "Connecting Europe", 4 pantos
TTB_486_501	new loco chassis, BLS Cargo, grey/colored, "Die Alpinisten", 4 pantos

Vectron: Class 193 / 247



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_Vectron_KI**
- set with 10 engines of the classes 193 (electric) and 247 (diesel electric)
- with original sound
- preselection of pantograph via DynamicNumbering
 - the loco number contains the code "px", where x is a figure between 0 and 4
 - p0 = all pantographs lowered
 - p1 = front pantograph raised
 - p2 = back pantograph raised
 - p3 = outer front pantograph raised (only locos with 4 pantographs)
 - p4 = outer back pantograph raised (only locos with 4 pantographs)

→ available locos:

193 841-4	boxXpress.de, blue-white, 2 pantos
193 861-2	X4E-861 - MRCE, black - side-ad boxXpress.de, 2 pantos
193 862-0	X4E-862 - MRCE, black, 2 pantos
193 875-2	X4E-875 - MRCE, black, "Anni", ad "Europe", 2 pantos
193 877-8	X4E-877 - MRCE, black, "Lea", ad Transpetrol/Retrack, 2 pantos
193 891-9	White-green, CapTrain, 4 pantos
193 901-6	white, lettering "Siemens Vectron", 4 pantos
193 970-1	white, ad "Easy Spares Vectron" with cat, 2 pantos
247 901-2	white, ad "Vectron" with wild cat
247 901-0	white, Vectron-lettering

Class 218.8



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_B-WT_KI-Verkehr**
- 2 locos of the class 218.8 - modified class 218 as helper loco with Scharfenberg-coupling adaptor
 - can only be coupled with vehicles with compatible couplings (e.g. ICE-T)
 - usage as ICE tow loco
- original sound
- available locos: 218 838 und 218 839

Class 219 / 229



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_BR219_KI**
- Set with 14 engines of the classes 219/229 in several variations
- matching original sound
- available engines:

- 119 158-4, DB AG, Bw Berlin Schöneweide, museum engine, low 3rd headlight
- 219 003-1, DR, Bw Aue, high 3rd headlight
- 219 034-6, DB AG, new-red, Bw Schwerin, high 3rd headlight
- 219 063-5, DB AG, orient red, Bw Gera, high 3rd headlight
- 219 078-3, Regental (DR), new-red, high 3rd headlight
- 219 087-4 Regental (DR), new-red, high 3rd headlight
- 219 129-4, DB AG, traffic red, Bw Cottbus, low 3rd headlight
- 219 138-5, DB AG, orient red, Bw Halberstadt, low 3rd headlight
- 219 155-0, DR, black number signs, no sidelong stripe, Bw Halberstadt, low 3rd headlight
- 219 165-8, DR, no black number signs, Bw Aue, low 3rd headlight
- 229 120-1, MEG 301, traffic red, low 3rd headlight
- 229 173-0, MEG 302, traffic red, low 3rd headlight
- 229 181-3, DBAG, yellow, "DB Bahnbau", low 3rd headlight
- 229 188-8, new-red, Bw Berlin-Pankow, low 3rd headlight

- Train destination display can be chosen via DynamicNumbering (if available)
 - wagon number contains a letter that preselects a train destination
 - available destinations:

A	RE5 Falkenberg (Elster)	K	RE4 Luckenwalde
B	RE5 Lutherstadt Wittenberg	L	RE4 Ludwigsfelde
C	RE5 Rostock	M	RE4 Jüterbog
D	RE5 Stralsund	N	RE4 Wismar
E	RE5 Neubrandenburg	O	RE4 Wittenberge
F	RE5 Jüterbog	P	RE4 Lutherstadt Wittenberg
G	RE5 Halle (Saale)	Q	RE4 Falkenberg (Elster)
H	RE5 Berlin Gesundbrunnen	R	RE4 Rathenow
I	RE5 Berlin Südkreuz	S	RE4 Stendal
J	RE5 Berlin Hbf	T	RE4 Schwerin Hbf
		U	RE4 Berlin-Spandau
		V	RE4 Berlin Hbf
		W	RE4 Berlin Südkreuz
X	RE3 Stralsund Hbf	e	RE9 Berlin Schönefeld Flughafen
Y	RE3 Schwedt	f	RE9 Flughafen Berlin-Brandenburg BER
Z	RE3 Elsterwerda	g	RE9 Berlin Südkreuz
a	RE3 Wünsdorf-Waldstadt	h	RE9 Berlin Hbf
b	RE3 Berlin Gesundbrunnen		
c	RE3 Berlin Südkreuz		
d	RE3 Berlin Hbf		
i	RE Altenburg Hbf	q	RB Altenburg
j	RE Bad Rinckenburg	r	RB Bad Rinckenburg
k	RE Wildau	s	RB Wildau
l	RE Hosvenn	t	RB Hisvenn
m	RE Köblitz Hbf	u	RB Köblitz Hbf
n	Bitte nicht einsteigen	v	RB Trier
o	RE Trier	w	RB Luxemburg
p	RE Luxemburg		
+	[empty train destination display]		

Class 231 - 234



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_BR232_KI**
- set with 7 engines of the classes 231, 232, 233 und 234 in different variations
- original sound
- available engines:

- 231 012-8, WFL, DR-painting
- 232 004-2, ITL, silver, "W232.01"
- 232 045-5, East West Railways, red-white
- 232 262-6, DB AG, traffic red
- 233 233-6, DB AG, traffic red
- 233 493-6, DB AG, yellow, "DB Bahnbau", Königsborn, "Tiger"
- 234 242-6, DB AG, traffic red

Important: there are 2 different texture sets for this vehicles. If you have ressource problems with your train simulator, you can use smaller texture sizes with just some mouse clicks. You can re-activate the high-resolution textures as well. Use the links in your start menu:

"Activate TTB_BR232_KI HighRes" → Activation of high resolution textures

"Activate TTB_BR232_KI LowRes" → Activation of low resolution textures

Important: These scripts check whether you have unpacked the delivered .ap archives or not. The scripts will work the way you (un)packed files.

Important: the high resolution textures will be activated after installing the addon.

Class 423



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_B-WT_KI-Verkehr**
- trainset of class 423 in the state as it was in Berlin as "S21" in the years 2006 and 2009
- original sound
- predefined consists delivered
- Train destination display can be chosen via DynamicNumbering
 - wagon number contains a letter that preselects a train destination
 - available destinations:

a - Berlin Gesundbrunnen b - Berlin Südkreuz c - Berlin Hbf

Class 481



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_B-WT_KI-Verkehr**
- trainset of class 481 ("S-Bahn Berlin") with original sound
- random-offset-triggered opening and closing doors, process lent from ZAT with opening driver door
- predefined consists delivered
- Train destination display can be chosen via DynamicNumbering
 - wagon number contains a letter that preselects a train destination
 - available destinations:

a	S1 Oranienburg	z	S42 Ring
b	S1 Frohnau	A	S45 Südkreuz
c	S1 Potsdam Hbf	B	S45 Bundesplatz
d	S1 Wannsee	C	S45 Flughafen Schönefeld
e	S2 Bernau	D	S46 Westend
f	S2 Buch	E	S46 Königs Wusterhausen
g	S2 Blankenfelde	F	S47 Herrmanstraße
h	S2 Lichtenrade	G	S47 Spindlersfeld
i	S2 Priesterweg	H	S47 Schöneeweide
j	S2 Südkreuz	I	S5 Spandau
k	S2 Potsdamer Platz	J	S5 Mahlsdorf
l	S25 Teltow Stadt	K	S5 Hoppegarten
m	S25 Lichterfelde Süd	L	S5 Strausberg
n	S25 Lichterfelde Ost	M	S5 Strausberg Nord
o	S25 Priesterweg	N	S7 Potsdam Hbf.
p	S25 Südkreuz	O	S7 Ahrensfelde
q	S25 Potsdamer Platz	P	S75 Westkreuz
r	S25 Nordbahnhof	Q	S75 Wartenberg
s	S25 Gesundbrunnen	R	S8 Birkenwerder
t	S25 Schönholz	S	S8 Zeuthen
u	S25 Tegel	T	S8 Grünau
v	S25 Hennigsdorf	U	S85 Waidmannslust
w	S3 Erkner	V	S85 Grünau
x	S3 Ostbahnhof	W	S9 Pankow
y	S41 Ring	X	S9 Flughafen Schönefeld

Class 650



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_BR650_KI**
- RegioShuttle as VT650.76 of the Ostdeutschen Eisenbahn (ODEG)
- matching original sound
- Train destination display can be chosen via DynamicNumbering
 - wagon number contains a letter that preselects a train destination
 - available destinations:

- | |
|--------------------------|
| a - [empty] |
| b - RegionalBahn (Logo) |
| c - RegionalExpress |
| d - Nicht einsteigen |
| e - DB Dienstfahrt |
| f - Ersatzzug |
| g - Leerfahrt |
| h - Probefahrt |
| i - Sonderfahrt |
| j - Sonderzug |
| k - RB33 Beelitz Stadt |
| l - RB 33 Berlin Wannsee |
| m - RB 33 Jüterbog |
| n - RB 33 Michendorf |

Subway Type A3L



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_B-WT_KI-Verkehr**
- trainset of Berlin subway for usage as AI train at Berlin Gleisdreieck
- ressource friendly AI model without additional functionality
- predefined consists delivered

IC-Coaches



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_IC_KI**
- eminent resource friendly version of the abovementioned IC coach set with additional coaches
- set with 40 express train coaches of different types and paintings
- complex built original sound
- random-offset-triggered opening and closing doors
- available coaches:

Identifier	Description	Available paintings
Aimz261	IR-Coach 1st Class	(DB, IR, VR)
Apmz121	IC-Coach 1st Class	(DB, IC, IC2)
ARkimbz266	IR-BordBistro	(DB, IR)
Avmz109	IC-Coach 1st Class	(DB, IC, IC2)
Bimz264	IR-Coach 2nd Class	(DB, IR, VR)
Bimdz268	IR-Coach 2nd Class, bike cabin	(DB, IR, VR)
Bimdzf271	IR-Control car	(DB, IR, IC, IC2)
Bpmbdzf296	IC-Control car	(DB, IC2)
Bpmbkz294	IC-Coach, 2nd Class, SnackPoint	(DB, IC, IC2, VR)
Bpmbz295	IC-Coach, 2nd Class, wheelchair-accessable	(DB, IC, IC2)
Bpmdz293	IC-Coach, 2nd Class, bike cabin	(IC)
Bpmz294	IC-Coach, 2nd Class	(DB, IC, IC2)
Bvmsz186	IC-Coach, 2nd Class, pressurized	(DB, IC, IC2)
WRmz134	IC-Restaurant coach	(DB, IC, IC2)

- Description of paint schemes:
- DB ICE-Scheme, white + red stripe
 - IR InterRegio-Scheme, blue/white
 - IC InterCity-Scheme with contrast stripe
 - IC2 InterCity-Schema traffic red without contrast stripe
 - VR traffic red with white stripe

- Coaches with sideways passenger information display can be labelled via DynamicNumbering.
 - wagon number contains a letter that preselects a train destination
 - available destinations:

- a - IC2355 Düsseldorf - Ostseebad Binz
- b - IC2352 Stralsund - Erfurt
- c - IC1996 Berlin-Südkreuz - Hamburg Altona
- d - IC2005 Norddeich/Mole - Konstanz

→ The IR-Control car has got a nose cover. This can be opened or closed. You can choose the state via Dynamic Numbering, too. An "O" stands for opened (default state) and a "C" stands for "closed".

Güterwagen



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_GW_st**
- wagon set with about 80 freight wagons, that were designed ressource friendly
- original sound linked in different versions
- automatically placed end-of-train signals
- many predefined consists
- 2 versions per wagon:

"ST"-Wagon: static version without sound for sidings

"KI"-Wagon: wagon with sound for moving traffic

- available wagons:

Eanos-x052 - open bulk freight wagon (6x, per wagon one empty and coal load version)

- #1: DB, brown
- #2: DB-Cargo
- #3: DB-Cargo
- #4: Railion
- #5: DB, brown
- #6: DB, brown
- #7: PKP, blue, dirt
- #8: PKP, blue

Es025 - 2-axle open bulk wagon (2x, empty, coal and gravel version each)

- #1: DB, brown, old
- #2: DB, brown, old

Facns - 4-axle, open bulk freight wagon (2x, empty, coal and gravel version each)

- #1: DB Cargo, red, dirty
- #2: DB, brown, dirty

Falns - bulk freight wagon (14x, per wagon one empty and coal load version)

- #1-5: DB, brown
- #6-8: PKP old, blue/yellow
- #9,10: PKP old, brown
- #11-14: PKP new, blue

Fas - side-dump wagon (4x, per wagon one empty and gravel load version)

- #1,2,4: DB-Cargo, red
- #3: Railion, red

Fcs092 - 2-axle, open bulk freight wagon (1x, empty, coal and gravel version)

- #1: DB, brown



Habbiins - 4 axle sliding wall wagon (2x)

#1: new, silver bright

#2: dirt, Transwaggon

Hbbins306 - 2 axle sliding wall wagon (7x)

#1,2: DB, brown, dirt

#3: Railion, new, bright

#4: Transwaggon, clean

#5: clean

#6: dirt

#7: Transwaggon, dirt

Crane wagon (2x)

One crane wagon and one guard wagon for the crane arm (yellow)

Laaers - 2-piece, 2-axle car transport wagon (4x, empty and loaded)*

#1: blue, Mosolf

Lgs580 - 2-axle container wagon (17x)

#1: 1x 20Feet-Container, white

#2: 1x 20Feet -Container, blue

#3: 1x 20Feet -Container, green

#4: 1x 20Feet -liquid gas-Container, white

#5: 1x 20Feet - liquid gas Container, green (rust)

#6: 1x 40Feet -Container, red

#7: 1x 40Feet -Container, white

#8: 2x 20Feet -liquid gas-Container, white, green (rust)

#9: 2x 20Feet -Container, white, green

#10: 1x 20Feet -Container, green, blue

#11: 1x 20Feet -Container, blue + 20Feet - liquid gas -Container, white

#12: 1x 20Feet -Container, green + 20Feet - liquid gas -Container, white

#13: 1x 20Feet -Container, white + 20Feet - liquid gas -Container, green (rust)

#14: 1x 20Feet -Container, green + 20Feet - liquid gas -Container, green (rust)

#15: 1x 20Feet -Container, blue + 20Feet - liquid gas -Container, green (rust)

#16: 1x 20Feet -liquid gas-Container, white

#x: leer

Res - 4 axle low board wagon (2x)

#1 empty

#2 loaded with long wood

Rmms662 - heavy duty wagon (4x)

#1: DB, brown, empty

#2: DB, brown, tank

#3: DB, brown, cable drums

#4: DB, brown, steel slabs

Sgns - container wagon (16x)

#1: empty

#2: 1x 40feet-Conatiner, red

#3: 1x 40feet-Conatiner, white

#4: 2x 30feet-Conatiner, green

#5: 3x 20feet-Conatiner, grey-white-green

#6: 3x 20feet-Conatiner, green-white-grey

#7: 3x 20feet-Conatiner, green-blue-blue

#8: 3x 20feet-Conatiner, grey-white-white

- #9: 3x 20feet-Conatiner, blue-white-white
- #10: 2x 20feet-Conatiner, green-white
- #11: 2x 20feet-Conatiner, blue-green
- #12: 1x 20feet-Conatiner, blue
- #13: 1x 20feet-Conatiner, white
- #14: 2x 20/40feet-Conatiner, red-blue
- #15: 2x 20/40feet-Conatiner, white-green
- Shimmns708 - 4-axle coil transport wagon - metal (2x)
 - #1: DB, brown, Graffiti
 - #2: DB, brown
- Shimmns723 - 4-axle coil transport wagon - tarp (5x)
 - #1: DB, red
 - #2: DB Schenker, red
 - #3: DB Railion, red
 - #4: DB Schenker, red, Graffiti
 - #5: DB Railion, red, Graffiti
- Tanoos896 - 4-axle bulk freight wagon (10x)
 - #1: DB Cargo, red, pale
 - #2: DB, red, pale
 - #3: DB Railion, red, pale
 - #4: DB, red, Railion DB Logistics
 - #5: DB Schenker, red
 - #6: DB, red, pale, large DB-logo
 - #7: DB Railion, red, pale, dirty
 - #8: DB Railion, red
 - #9: DB Railion, red, dirty
 - #10: Nacco, blue
- Zans - tank car (4x)
 - #1 VTG, light grey
 - #2 VTG, dark grey
 - #3 GATX, dark grey, new
 - #4 VTG, dark grey, new

Important for the car transport wagons Laaers: There are several "_" letters in the wagon number. They stand for the colors of the loaded cars. The following color codes can be used (one letter per car):

- "_" - random color
- "B" - black
- "G" - yellow
- "M" - blue
- "P" - pink
- "R" - red
- "S" - silver

Museum coaches



→ activation folder in scenario editor: **TrainTeamBerlin \ TTB_MuBa_KI**

→ wagon set with 3 wagons for creating museum trainsets

→ original sound

→ delivered versions:

- | | |
|----------------|--------------------------------------------------------------------|
| - Bghw 01 KI | DR-Reko coach, 4-axle, lost color |
| - Bghw 02 KI | DR-Reko coach, 4-axle, newly painted, destination sign "Sonderzug" |
| - DBgwhs 01 KI | DR-Reko half baggage coach, 4-axle, lost color |

Scenario Objects



- activation folder in scenario editor: **TrainTeamBerlin \ TTB_Scenarios**
- set with numerous objects and assets defined as "signals"
- all objects are available in the scenario editor

- Lf signs:
 - collection of signal posts for signalling speed restriction sections
 - speed post "Lf1" is placed as signal - type the indicator in the signal
 - start and end posts are ordinary objects (signals Lf2 and Lf3)

- PZB magnets
 - you can place additional PZB magnets where needed in service
 - e.g. for securing an advance notice of a speed restriction (signal Lf1)
 - the set delivers "dynamic" (dependent of next signal state) and permanent active magnets Magneten mit
 - magnets are placed as "signals" in editor

- GPA - Speed testing system
 - GPAs are monitoring the speed of the train that's driving over it
 - they trigger a PZB forced braking when too fast
 - GPAs are to be placed as signal in scenario editor
 - type the monitoring speed limit (in km/h) in the signal flyout
 - GPA is working with all engines that are interpreting PZB 200Hz overrides
 - working with TTB PlusPack vehicles if installed with latest update

→ construction work objects

- numerous objects that can be used for creating temporary construction works in scenery along the tracks

- there are construction work "consists" that can be placed on the tracks. They contain objects that hide the tracks and transform them into an impassable construction work state. Predefined consists are delivered. There are several variations with fences and with/without gravel. There are separate cap wagons with end geometry for the "consists" that are placed manually.

- delivered ordinary objects for creating construction work areas:

- Excavator
- Bulldozer
- Roller
- Scaffold
- Building crane small and big
- mobile concrete mixer
- 2 different spoil container
- packed concrete parts
- cable spools - single and 4x on palletes
- sand and gravel heaps
- accessories

Scenarios

We want to introduce the delivered scenarios in following part of the manual. We will give the basic data of each scenario and additional hints that can be useful for a problem-free ride and to solve the activity.

There are two versions of each scenario: The standard version mentioned here and a copy that don't make use of vehicles from the TrainTeamBerlin PlusPacks (see system requirements for more detail). The copies that are playable without having the PlusPack addons have the naming suffix "noPP" in the menu titles. Please note that the mentioned player vehicle version and the station announcements can only be used when playing the PlusPack-version of a scenario for technical reasons.

TTB SP3 01: RB28602 - On the trail of the Sputniks

Vehicle: 143 877 traffic red, train destination display

Difficulty: easy

Season / weather: Winter, foggy

Time: 08:53

Duration: 0:40 hours

Description: Once there were major commuter lines via the outer ring of Berlin ("Berliner Außenring" - BAR). These lines were well-founded by bypassing Berlin while the division of Germany - long double deck trains were rolling from Potsdam via Schönefeld Airport to the east of Berlin and stopped at the important intersection stations. The line RB22 is today's relict of these lines. The grand times of this relation are over for decades now - only some passengers use this line, many intersections are savaged and closed. Some years ago, the RB22 had a detour via the Havel lakes to Potsdam. This line is divided into the two parts RB22 and RB23 today for reducing travel times between Potsdam and the future Berlin Brandenburg International Airport (BBI). Let's make a time jump to years that are gone - exactly to the year 2008.

You are at the entry of Seddin junction and passed a signal showing Ks2 some seconds ago (except stop) - there is a late RE7 trainset. This won't be a problem for you as your short train consisting of a class 143 engine and a driving trailer has enough traction force for being in time. Consist operations like this weren't rare in former times - although the DMU class 646 was homelike here in 2008. You have just a hand full of passengers commuting to the car plant in Ludwigsfelde (near Genshagener Heide station) and to the airport in Schönefeld. So enjoy this easy ride into the sunrise. But don't forget to handle the protective sections and sink your pantograph there. The entry signal was a Ks2 with Zs3 "6" - so you are allowed to pass the following set of points with 60km/.

Seddin	05:33-05:34
Michendorf	05:38-05:39
Saarmund	05:46-05:47
Struveshof	05:50
Genshagener Heide	05:53-05:54
Glasower Damm	06:02
Berlin Schönefeld Flughafen	06:08

Attention: There is a speed restriction section of 100km/h on the main track behind Michendorf from km 2,8 to km 5,8 due to track superstructure deficits (you may notice them by some points or other). One installed a speed test section there - so increasing the speed limit may end up in a forced braking.

Attention: You have to pay special attention to the protective sections - ignoring them can have fatal technical consequences! There is a protected section between km27,4 and 27,3. You can't turn off the main switch of the loco separately, so you have to lower the pantograph!

TTB SP3 02: RE18998 - Striezelmarkt-Express

Vehicle: 143 877 traffic red, train destination display

Difficulty: easy

Season / weather: Winter, foggy

Time: 08:53

Duration: 0:45 hours

Description: This is a really wet, cold and therefore uncomfortable morning in december. You have the honour to drive the RE18998 that is called "Striezelmarkt-Express" from Berlin to Dresden. It is a train pair that is only operating at the advent weekends. Like the destination, this train pair has already a certain tradition.

You are at the entry of Berlin Gesundbrunnen. This year, the Striezelmarkt-Express will be guided via Jüterbog, Falkenberg und Zeithain instead of using the direct main line due to construction works. You have a relative long train set of n-type coaches that are normally rare in this area. The boarding stop is at Berlin Südkreuz. So pick up your day trip travellers and drive this train to Dresden!

Berlin Gesundbrunnen	08:54
Berlin Hbf	08:57
Berlin Potsdamer Platz	08:58
Berlin Südkreuz	09:02-09:04
Berlin Lichterfelde Ost	09:08
Teltow	09:10
Großbeeren	09:13
Birkengrund	09:15
Ludwigfelde	09:16
Thyrow	09:19
Trebbin	09:21
Luckenwalde	09:28
Jüterbog	09:36-09:37

TTB SP3 03b: RB28621 - Tree blossoming shift - Part 1

Vehicle: 143 877 traffic red, train destination display

Difficulty: easy

Season / weather: Spring, clear

Time: 16:48

Duration: 0:35 hours

Description: It's the 3rd of May in 2008: The "Tree blossoming festival" in Werder (Havel), that is now running, is one of the greatest annual folk festival in the Berlin area and surroundings. The transport association of Berlin and Brandenburg (VBB) is prepared for that event and its guests and is "bending" one end of the line RB22: instead of coming from Schönefeld and turning to Potsdam, one chooses the left branch of the Potsdam track triangle and lets the line operate to Werder (Havel). But this is nothing that will be tangent to you for your ride to Seddin. But the vehicle service is adjusted, too: for getting bin sizes that are big enough, one lets unusual train sets consisting of engines and coaches be in service here. Normally, you'll find the DMU class 646 (GTW2/6) operating on this line. Let's hope for a relaxed shift - everything is calm at the moment and the weather is at its best... Bring your train to Seddin!

Berlin Schönefeld Flughafen	16:48- 16:50
Glasower Damm	16:56
Genshagener Heide	17:03- 17:04
Struveshof	17:06
Saarmund	17:09- 17:10
Michendorf	17:15- 17:16
Seddin	17:19- 17:20

Attention: You have to pay special attention to the protective sections - ignoring them can have fatal technical consequences! There is a protected section between km27,4 and 27,3. You can't turn off the main switch of the loco separately, so you have to lower the pantograph!

TTB SP3 03b: RB28634 - Tree blossoming shift - Part 2

Vehicle: 143 877 traffic red, train destination display

Difficulty: easy

Season / weather: Summer, cloudy

Time: 21:31

Duration: 0:40 hours

Description: After having had several rides on th RB22 this afternoon, there was an additional train pair of the Line RE1 of the relation Werder - Berlin Friedrichstraße and back. For completing your shift, you have to drive another train of the RB22.

Meanwhile, it's evening, the sun set and the guests of the tree blossoming festival in Werder want to get back home. You caught another vehicle circuit that isn't commonplace on this line (any more). Your train RB28634 is an additional train in the timetable for today that runs normally just weekdays. But the big home trip "run" won't bring you any stress on this line. The backwards signal showed that you have to drive 60km/h at maximum across the following set of points. This speed is - different to the aspect of the next signal - your maximum speed there, too. Bring your train to Berlin Schönefeld Airport!

Seddin	21:34-21:35
Michendorf	21:39-21:40
Saarmund	21:46-21:47
Struveshof	21:50
Genshagener Heide	21:53-21:54
Glasower Damm	22:01
Berlin Schönefeld Flughafen	22:06

Attention: You have to pay special attention to the protective sections - ignoring them can have fatal technical consequences! There is a protected section between km27,4 and 27,3. You can't turn off the main switch of the loco separately, so you have to lower the pantograph!

TTB SP3 04a: RE92461 - Shift start location Südkreuz - Part 1

Vehicle: 143 877 traffic red, train destination display

Difficulty: middle

Season / weather: Summer, cloudy

Time: 16:12

Duration: 0:45 hours

Description: A look into your time schedule is baring many a surprise at the moment. There are changed movements of trains and additional operations due to several construction works and its route closings in the year 2012. Your shift of today seems to be a "filler" as it contains only trains of those kind.

Your shift start location is Berlin Südkreuz. You're coming from there to the platform: your RE92461 is a train of the line RE4 that is actually a stump line - one melted the souther branch of the RE5 with the northern one of the RE4 to the relation Lu. Wittenberg/Falkenberg - Jüterbog - Ludwigsfelde - Berlin - Rathenow that is called "RE5 South" now. Some additional stops of the line RE4 are remaining in the area around Berlin: Berlin - Ludwigsfelde - (Jüterbog) - this is the RE4 short line now. You are taking a train of this line at the early afternoon of today. This short line is operating with short trains, too: just engines of the class 143 are operating with two double deck coaches of the old type DBuz. Anyway, this consist will have the necessary traction force for staying in time of the tightly calculated timetable. Let the passengers board now and drive your train to Jüterbog.

Your predecessor reported about major difficulties with the traction control of the driving trailer - his report is being evaluated at the moment. If there are consequences for your ride, you will be informed.

Berlin Südkreuz	16:12- 16:13
Berlin Lichterfelde Ost	16:17- 16:18
Teltow	16:22- 16:23
Großbeeren	16:26- 16:27
Birkengrund Süd	16:30- 16:31
Ludwigsfelde	16:33- 16:33
Thyrow	16:38
Trebbin	16:40
Woltersdorf	16:45
Luckenwalde	16:47- 16:48
Jüterbog	16:56

TTB SP3 04b: RE92466 - Shift start location Südkreuz - Part 2

Vehicle: 143 877 traffic red, train destination display

Difficulty: middle

Season / weather: Summer, cloudy

Time: 16:59

Duration: 0:50 hours

Description: The mentioned defect of the driving trailer seems to be a major defect. After having a talk with the colleague of the traffic control centre, one decided that you have to change the end of the train with your engine. But this shunting will be hard to take place in time...

Your uncoupled your loco immediately. So you will bring it to the other end of the coaches now. The turning points are labelled and the dispatcher has promised to set the shunting signals briefly. You can now drive to the signal in front of you... Shunting speed is 25km/h at maximum. The colleagues of the ODEG will be astonished because of the exceptional hustle - their rail car has to be at the platform in some minutes again, too.

The shunting way is via turning point 1 - track 3305 - track 25 south - turning point 2 back to track 3 at the other end of the train. When the loco is coupled again, let the passengers board and bring your RE92466 to Berlin Südkreuz. This train won't stop between Luckenwalde and Ludwigsfelde as before. Have a good ride!

Jüterbog	16:59-17:05
Luckenwalde	17:13-17:14
Woltersdorf	17:16
Trebbin	17:22
Thyrow	17:24
Ludwigsfelde	17:28-17:29
Birkengrund Süd	17:32-17:33
Großbeeren	17:37-17:38
Teltow	17:41-17:42
Berlin Lichterfelde Ost	17:45-17:46
Berlin Südkreuz	17:51

Attention: Due to a bug in Train Simulator 2017 it is not possible to let 2 trains board at one platform. The door release will be blocked for the second train. At Jüterbog it is possible that a computer driven train is at the platform before your return (depending on your shunting speed). If this is the case, please wait until this AI train leaves the station and then start the boarding process. The scenario can be successfully completed in both cases.

TTB SP3 04c: RE18749 - Shift start location Südkreuz - Part 3

Vehicle: 143 877 traffic red, train destination display

Difficulty: middle

Season / weather: Summer, cloudy

Time: 19:04

Duration: 0:45 hours

Description: You had a ride as passenger with another RegionalExpress from Berlin Südkreuz to Berlin Gesundbrunnen. After having a break your shift schedule states that there is another train pair to drive for today. Due to a route closure between Berlin Zoo and Berlin Wannsee for one year (bridge and superstructure construction works) the line RE7 is broken in this area. But there is a compensation for the commuter: there are three train pairs from monday to friday that operate directly from Belzig via the outer ring to Berlin Gesundbrunnen.

Your shift schedule says that you will take over the last of these train pairs for today. Bring this train from Berlin Gesundbrunnen to Seddin in time.

Berlin Gesundbrunnen	19:04- 19:06
Berlin Hbf	19:10- 19:11
Berlin Potsdamer Platz	19:13- 19:14
Berlin Südkreuz	19:18- 19:19
Berlin Lichterfelde Ost	19:23
Teltow	19:25
Großbeeren	19:28
Genshagener Heide	19:33
Ludwigfelde Struveshof	19:34
Saarmund	19:38
Michendorf	19:42-19:43
Seddin	19:46-19:47

TTB SP3 05: IC 2355 Arkona - Redirection via Seddin

Vehicle: 101 004 "Saxony-Anhalt"
 Difficulty: difficult
 Season / weather: Autumn, unsettled
 Time: 12:15
 Duration: 1:15 hours

Description: You are on your way with IC 2355 Frankfurt - Ostseebad Binz at this contrary weathered autumn day. The whole main line traffic from/to Dresden/Leipzig is being redirected via Seddin, Potsdam and den Berliner inner ring to Berlin Gesundbrunnen due to construction works near Berlin Südkreuz. So your stops at Berlin Südkreuz and Berlin central station are cancelled today. You just stopped in front of the entry signal of Bitterfeld. There is a freight train running through this signal block. There may be other delays on your way because of overtakings of freight trains or redirected trains.
 Good luck! Maximum speed is 200km/h.

Bitterfeld	12:19- 12:21
Muldenstein	12:24
Burgkennitz	12:26
Gräfenheinichen	12:27
Radis	12:29
Bergwitz	12:31
Pratau	12:33
Lutherstadt Wittenberg	12:35- 12:37
Zörnigall	12:41
Bülzig	12:43
Zahna	12:44
Klebitz	12:46
Blönsdorf	12:47
Niedergörsdorf	12:49
Jüterbog	12:51
Luckenwalde	12:55
Woltersdorf	12:56
Trebbin	13:00
Thyrow	13:01
Ludwigfelde	13:03- 13:09
Birkengrund	13:11
Genshagener Heide	13:15
Ludwigfelde Struveshof	13:17
Saarmund	13:20
Michendorf	13:25
Seddin	13:27
Abzw. Lienewitz	13:28- 13:31

Attention: this is a really resource consuming scenario! So it is divided into two parts. We urgently recommend to restart Train Simulator before playing the second part. This is why we forbear from starting the second part automatically. The stopping time at the signal is long enough for restarting the program :)

TTB SP3 06: IC 1950 - Umleiter durch die Nacht

Fahrzeug: 101 144, "Hertha BSC"-Werbung

Schwierigkeit: mittel

Jahreszeit / Wetter: Herbst, klar

Zeit: 00:30

Dauer: 1:10 Stunden

Beschreibung: Sie sind heute für den IC 1950 Berlin-Gesundbrunnen - Frankfurt(Main) eingeteilt. Auf Grund erneuter Bauarbeiten im Bereich des Bahnhofes Berlin Südkreuz, werden alle Fernverkehrszüge in Richtung Leipzig und Dresden über Potsdam und Seddin umgeleitet. Als Kuriosum verkehren die Züge von der Strecke 6115 kommend durch den Seddiner Güterbahnhof(Gbf). Ob es sich dabei um einen Scherz des Fahrdienstleiters handelt, oder ob auf der parallel führenden Hauptstrecke auch Wartungsarbeiten stattfinden, ist nicht überliefert.

Sie stehen zurzeit vor dem haltzeigende Signal 3464 und müssen noch die Kreuzung mit einer Überführung zweier ODEG Triebwagen abwarten. Danach geht es durch den Gbf in Richtung Michendorf.

Bitte beachten Sie, dass ab dem Signal 3464, während der gesamten Fahrt über den Gbf, Vmax = 40 km/h gilt, auch wenn die Geschwindigkeit im F3 Monitor zweitweise wechselt! Diese ist erst ab dem Ausfahrtsignal wieder aufgehoben. Hinter dem Bahnhof Saarmund ist von km 10,2 - km 10,3 eine Langsamfahrstelle von 70km/h eingerichtet. Seien Sie also aufmerksam in der Dunkelheit.

Die fahrplanmäßige Ankunftszeit um 01:11 Uhr in Lutherstadt Wittenberg wirst Du auf Grund der Umleitung wohl nicht halten können.

Hinweis: Unterwegs kann es vereinzelt zu Verzögerungen auf Grund von haltzeigenden Signalen kommen. Dies ist so gewollt und kein Fehler im Szenario. Es wird in der gesamten Aufgabe die TAB-Taste NICHT benötigt.

Seddin	00:32
Michendorf	00:41
Saarmund	00:45
Lu.-Struveshof	00:49
Genshagener Heide	00:51
Abzw. Großbeeren West	00:53
Birkengrund	00:55
Ludwigsfelde	00:56
Thyrow	00:59
Trebbin	01:00
Waltersdorf	01:03
Luckenwalde	01:04
Jüterbog	01:10
Niedergörsdorf	01:14
Blönsdorf	01:16
Klebitz	01:17
Zahna	01:18

<i>Bülzig</i>	<i>01:19</i>
<i>Zörnigall</i>	<i>01:20</i>
<i>Lu. Wittenberg</i>	<i>01:22-01:23</i>
<i>Pratau</i>	<i>01:25</i>
<i>Bergwitz</i>	<i>01:27</i>
<i>Radis</i>	<i>01:29</i>
<i>Gräfenhainichen</i>	<i>01:30</i>
<i>Burgkernitz</i>	<i>01:32</i>
<i>Muldenstein</i>	<i>01:33</i>
<i>Bitterfeld</i>	<i>01:36-01:37</i>

TTB SP3 07: Service on the Class 294 - FZ 81540 to Ludwigsfelde

Vehicle: Class 294, traffic red

Difficulty: difficult

Season / weather: Summer, cloudy

Time: 09:30

Duration: 1:10 hours

Description: I've heard that you are the new guy in Seddin. Were in Maschen before, righth? Welcome to the East of Germany. It's your job to bring the delivery for Ludwigsfelde today. It's your first ride to Ludwigsfelde. Will be no problem to handle it. Things are working the same way here as at other yards.

You are at track 43 at the depot with your Class 294. Start the engine and go via track 296 south to track 275. You can stop directly behind the level crossing. Then go back to your wagons that are standing at track 275. That's the one parallel to number 296 south. You can see your set of wagons when passing 296 south for the first time. At track 405, couple your wagons (3x Habbis 345 and 2x Gbs 254). The shunter is waiting for you - he will do the brake test with you. Do exactly what he wants.

After finishing the brake test, go via 275 to track 264. There's a colleague waiting for you at the exit signal. Stop there and take the documents he has for you. You can read in this documents how to handle shunting in Ludwigsfelde. The dispatcher is a nice guy, there, too. He surely will guide you.

Normally, this delivery train runs at midday. We are early today, so you may have to wait at some signals. But you're in contact with the dispatcher all the time. He will inform you. So have a good journey! But wait, I didn't tell you the most important fact: Shunting speed here in Seddin is 25km/h. At the main line you are allowed to drive at 80km/h after passing the exit signal of Seddin.

Seddin ASig B264	9:43
Michendorf	9:46
Saarmund	9:53
Struveshof	9:57
Genshagener Heide	9:59
Abzw. Großbeeren West	10:04
Birkengrund	10:07
Lu ESig	10:09
Ludwigsfelde	10:11
Anschluss Siemens	10:25
Anschluss VW Logistik	10:35

TTB SP3 08: Service on the Class 294 - EK 53817 Container to Seddin

Vehicle: Class 294, traffic red
 Difficulty: difficult
 Season / weather: Spring, clear
 Time: 19:45
 Duration: 0:50 hours

Description: It's your task to bring container train consisting of 14 wagons from the container terminal of Großbeeren to Seddin on this balmy spring evening. Your class 294 is standing at track 43. Set up the engine and go forwards behind the signal "23L 441" in front of you. Then back to track 104 when the point is switched.

Please couple the container wagons at track 104. The shunter is already waiting for you. Pay attention to his orders. After testing the brakes you can drive forwards to the set of departure sidings. Your maximum speed is 25km/h when shunting at the Großbeeren container terminal and yard. Maximum speed at the main line is 80km/h.

There are construction works at Ludwigsfelde-Struveshof. One installed a temporary speed limit of 60km/h from km 14,4 to km 14,2.

Attention: It's possible that you may have to wait at several signals. This is no failure. Your delivery train has not the highest priority in the timetable ;-). So you don't need the TAB key. Every shunting signal in Großbeeren and Seddin will be switched by the dispatcher. You may approach with reduced speed.

At Seddin, you stop your train at Track 528 and uncouple your engine. After waiting for an opposite train you can bring your loco to track 44 and stop the engine.

Großbeeren ASig	19:55- 19:58
Genshagener Heide	20:03- 20:05
Lu. Strubeshof	20:07
Saarmund	20:12
Michendorf ESig	20:18- 20:21
Michendorf	20:22
Seddin Gl 528	20:26- 20:29
Seddin Gl 44	20:35

TTB SP3 09: DGS 52628 - Ballast for Elbe Valley

Vehicle: 151 123 RBH
 Difficulty: difficult
 Season / weather: Winter, Snow
 Time: 17:00
 Duration: 1:30 hours

Description: It's the 1st of February 2011. Your freight shift contains the job to drive the DGS 52628 from Seddin to Pirna. You can read about type Fas gravel wagons that are waiting at track 532 in the freight documents. It seems that this load is intended for being used at the Elbe Valley construction works...

Normally this is a job for DB Cargo... Railion... aaah no, Schenker is the right name at the moment. Maybe the lack of vehicle capacities is as big as one is accessing engines of the subsidiary RBH as a loan. Good that you have an authorisation for the Class 151 locos!

It's your job to bring this train to Lutherstadt Wittenberg on its way to Pirna. Your way will be via Wittenberg including change in direction there due to additional construction works between Jüterbog and Falkenberg.

The German Weather Service is warning about heavy snowfalls into the bargain. The colleagues of DB Netz (infrastructure service) are really busy with warming the switch tongues. Let's see if your tour will be in time until you reach Wittenberg.

Now set up both of your class 151 engines. Drive backwards and couple your train when the dispatcher finds a slot between the arriving and departing freight trains. He will set the shunting signal for you. A shunter is waiting at the train for doing the brake test with you. Scheduled departure at Seddin is 17:10. There is an overtaking planned in your timetable at Luckenwalde, the dispatcher will inform you later. Shunting speed at Seddin is 25km/h, maximum speed of your train at the main line is 100km/h. You don't need the TAB key in this scenario.

Seddin Gleis 513	17:00- 17:02
Seddin Gleis 532	17:04- 17:10
Michendorf	17:15
Saarmund	17:20- 17:23
Lu.-Struveshof	17:28
Genshagener Heide	17:31
Abzw. Großbeer. West	17:33
Birkengrund	17:35
Ludwigsfelde	17:38
Thyrow	17:41
Trebbin	17:43
Woltersdorf	17:50
Luckenwalde Pbf	17:52
Luckenwalde Gleis 23	17:54- 18:02
Jüterbog	18:10
Niedergörsdorf	18:14
Blönsdorf	18:18

<i>Klebitz</i>	18:20
<i>Zahna</i>	18:23
<i>Bülzig</i>	18:25
<i>Zörnigall</i>	18:26
<i>Lutherstadt Wittenberg</i>	18:30-18:31

TTB SP3 10: EZ 51385 - Mixed freight for the sea harbour

Vehicle: 143 344 MEG

Difficulty: difficult

Season / weather: Summer, cloudy

Time: 09:09

Duration: 1:30 hours

Description: What a night, that you've just put behind you... a storm low fly over Germany last night - it left several damages. The last troughs of this low pressure swept over the East some minutes ago. Railway services are start-up again slowly - you can expect normal traffic except minor troubleshooting.

You have to bring the freight EZ 51385 to Berlin at this "morning after": it's an wagon load freight train from Halle (Saale) to the sea harbour of Rostock. You are taking this train over from a colleague at Lutherstadt Wittenberg. Your part is a short stage of its train movement to Berlin Schönefeld. The next colleague is waiting there - you will go on with a commuter to Seddin for driving another freight train back to the south.

But let's have a look at the details of your tour: set up the engine. The dispatcher promised to set the clear aspect of the exit signal shortly when the RegionalBahn from Falkenberg passed. But you had to promise on your own to hurry on as the ICE 1618 to Berlin is already approaching. If you are fast enough, the dispatcher will place the overtaking at Niedergörsdorf instead of Zahna. So then... let's start!

There are construction works between km 57,4 and 54,0 between Jüterbog and Luckenwalde - one is renewing the track superstructure. The dispatcher has to manage the single tracked traffic. So it's possible that you may have to wait at Jüterbog station, too. Let's hope for no interruption caused by the weather..

Maximum speed of the train is 100km/h. You don't need the TAB key in this scenario.

Lutherstadt Wittenberg	09:09-09:11
Zörnigall	09:16
Bülzig	09:17
Zahna	09:19
Klebitz	09:23
Blönsdorf	09:25
Niedergörsdorf	09:29-09:33
Jüterbog Pbf	09:38-09:46
Jüterbog Gbf	09:48
Luckenwalde Gbf	09:58- 10:00
Luckenwalde Pbf	10:02- 10:03
Waltersdorf	10:06
Trebbin	10:15
Thyrow	10:17
Ludwigsfelde	10:23- 10:25
Birkengrund	10:27
Abzw. Gensh. Heide Ost	10:28

<i>Diedersdorf</i>	<i>10:32</i>
<i>Abzw. Glasower Damm</i>	<i>10:34</i>
<i>Berlin Schönefeld</i>	<i>10:40- 10:41</i>

Attention: You have to pay special attention to the protective sections - ignoring them can have fatal technical consequences! There is a protected section between km27,4 and 27,3. You can't turn off the main switch of the loco separately, so you have to lower the pantograph!

Additional hints:

→ You can use our support forum <http://www.trainteamberlin.de/forum> for further questions.

FAQ:

Question: I'm playing a scenario and there's an abrupt crash of the game with a "dump" error message. What am I doing wrong?

Answer: At first: this short message is not suitable for the complex background of this problem. The most common cause of this message is connected to a lack of available memory (RAM).

You have to know: Train Simulator 2018 is a 32bit program that can handle technically 4GB of memory at maximum - in practice, this limit is located between 3 and 3.5GB for several reasons that are unimportant here. This limit will more and more be the "magic" limitation of using Train Simulator - similar to the analogue problems of the forerunner program by Microsoft (MSTS).

It should now be the aim to ensure that Train Simulator can exploit these 3.5GB at all and in a meaningful way. For reaching this goal, we can give the following tips and hints:

→ Windows uses itself a lot of RAM - in dimensions of GB. So we recommend to use computer with at minimum 6GB, better 8GB or more RAM. So you can even allow Train Simulator to use the 3.5GB of RAM.

→ As the 32bit mode of a computer can only handle 4GB of address space and Windows uses parts from the RAM itself, Train Simulator won't be able to address 3.5GB RAM when running 32bit operating system (OS). So we strongly recommend to use 64bit versions of windows from this consideration.

→ So the requirements are fulfilled - now we have to keep enough free space of RAM when using our computer. Running programs in the background uses a lot of RAM, too: Internet-Browser, Mail-Programs, Messenger & Co are the most common problems here. We can use the rule of thumb to keep 4.5GB of free memory, here. By doing this, Train Simulator can address its 3.5GB and there is enough space for balance variations in RAM usage of background programs and Windows. Close background programs if necessary for keeping enough memory free before starting Train Simulator. You can monitor the RAM distribution by yourself using the Windows task manager (Shortcut: Ctrl + Shift + Esc).

→ You can do something in the Train Simulator software as well for decreasing its RAM usage. But these measures can be extensive and should only be the last resource.

→ Train Simulator already uses hundreds of MB of memory just when starting the program and being in the main menu. This sum is dependent on the number of addons you have installed because Train Simulator scans the asset structure when starting the program. So it's recommendable to have installed not too many addons at a time for avoiding "dumps". Addons can easily be temporarily uninstalled via Steam, for example.

→ there is a 3rd party "Memory saver". This is a pack containing compressed images of the main menu that should decrease the RAM usage of 70-90MB. So installing this package can be interesting when suffering from numerous "dumps". Please note that this is 3rd party software and we can not give any support and we assume no liability for this! <http://rail-sim.de/forum/wsif/index.php/Entry/3296-Memory-saver/#description>

→ there are resource optimising measures supposed by 3rd party developers. If there are relevant solutions for the German market, we willingly link them here.