

# DIN EN 12896-7:2020-01 (E)

Public transport - Reference data model - Part 7: Driver management; English version  
EN 12896-7:2019, only on CD-ROM

---

## Contents

	Page
European foreword.....	5
Introduction .....	6
1    Scope.....	7
1.1   General Scope of the Standard.....	7
1.2   Functional Domain Description.....	8
1.3   Particular Scope of this Document.....	8
2    Normative references.....	8
3    Terms and definitions .....	9
4    Symbols and Abbreviations.....	11
5    Driver Management.....	12
5.1  Introduction.....	12
5.2  Driver.....	12
5.3  Driver Scheduling.....	13
5.3.1  General Remarks.....	13
5.3.2  Duties.....	13
5.3.3  Driver Trips.....	22
5.3.4  Driver Schedule Frame.....	24
5.4  Rostering .....	24
5.4.1  General Remarks.....	24
5.4.2  Roster Matrices .....	26
5.4.3  Roster Cycles.....	28
5.4.4  Roster Designs.....	31
5.4.5  Roster Assignments.....	32
5.5  Personnel Disposition (informative).....	33
5.5.1  Introduction .....	33
5.5.2  Driver Assignments .....	33
5.5.3  Driver Accounting.....	36
5.5.4  Accounting the Drivers' Work .....	38
5.6  Driver Control Actions.....	39
5.6.1  General.....	39
5.6.2  Logical Driver Creation .....	40
5.6.3  Logical Driver Cancellation .....	40
5.6.4  Change of Driver .....	41
Annex A (normative) Data Dictionary .....	42
A.1  Introduction .....	42
A.2  Data Dictionary — Driver Management.....	42
A.2.1  ABSENCE .....	42
A.2.2  ACCOUNT ENTRY .....	42
A.2.3  ACCOUNTING PERIOD .....	43
A.2.4  ACTIVITY LOG ENTRY .....	43
A.2.5  ASSIGNED DUTY .....	44
A.2.6  BREAK.....	44
A.2.7  BREAK FACILITY .....	45
A.2.8  CHANGE OF DRIVER.....	45

A.2.9	COLUMN/DAY.....	46
A.2.10	CONTINUOUS DUTY.....	46
A.2.11	COST CENTRE .....	46
A.2.12	DESIGN WEEK.....	46
A.2.13	DESIGN WEEK ELEMENT .....	47
A.2.14	DRIVER .....	47
A.2.15	DRIVER ASSIGNMENT .....	47
A.2.16	DRIVER CONTROL ACTION .....	48
A.2.17	DRIVER SCHEDULE FRAME.....	48
A.2.18	DRIVER TRIP.....	48
A.2.19	DRIVER TRIP TIME .....	49
A.2.20	DRIVING SPELL .....	49
A.2.21	DUTY.....	49
A.2.22	DUTY PART .....	50
A.2.23	DUTY TYPE .....	51
A.2.24	FILL IN TIME .....	51
A.2.25	LOGICAL DRIVER CANCELLATION.....	51
A.2.26	LOGICAL DRIVER CREATION.....	52
A.2.27	NON-DRIVING SPELL .....	52
A.2.28	PAUSE.....	52
A.2.29	REST.....	53
A.2.30	ROSTER CYCLE .....	53
A.2.31	ROSTER CYCLE ELEMENT .....	53
A.2.32	ROSTER DESIGN.....	54
A.2.33	ROSTER DESIGN IN MATRIX.....	54
A.2.34	ROSTER DESIGN TYPE .....	54
A.2.35	ROSTER ELEMENT .....	55
A.2.36	ROSTER MATRIX .....	55
A.2.37	ROW/DRIVER.....	55
A.2.38	SPARE DUTY.....	56
A.2.39	SPELL.....	56
A.2.40	SPLIT DUTY .....	57
A.2.41	STAND-BY .....	57
A.2.42	STRETCH .....	57
A.2.43	TASK .....	58
A.2.44	TIME ALLOWANCE .....	58
A.2.45	TYPE OF ABSENCE .....	59
A.2.46	TYPE OF ALLOWANCE .....	59
A.2.47	TYPE OF TASK .....	59
A.2.48	TYPE OF WAGE .....	60
A.2.49	WAGE INCREASE .....	60
A.2.50	WAGE TYPE ASSIGNMENT .....	60
A.2.51	WORK.....	61

Annex B (normative) Additional Common Concepts — Extension to EN 12896-1:2016, <i>Public transport — Reference data model — Part 1: Common concepts</i> .....	62	
B.1	Methodology and Conventions .....	62
B.1.1	Methodology for conceptual modelling.....	62
B.1.2	MODEL Class Diagrams .....	66
B.1.3	Summary of Rules for Transmodel Presentation.....	78
B.2	Extensions to the Common Concept MODEL .....	83
B.2.1	General .....	83
B.2.2	Additional Common Concepts.....	83

<b>B.2.3</b>	<b>Extensions to the Generic Framework .....</b>	<b>86</b>
<b>B.2.4</b>	<b>Extensions to the Reusable Components.....</b>	<b>89</b>
<b>B.2.5</b>	<b>Data Dictionary .....</b>	<b>98</b>
<b>Annex C (informative) Data Model Evolutions.....</b>		<b>118</b>
<b>C.1</b>	<b>Change Requests.....</b>	<b>118</b>
<b>C.2</b>	<b>Source of Text .....</b>	<b>121</b>
<b>C.3</b>	<b>Diagram Status .....</b>	<b>121</b>
<b>Bibliography.....</b>		<b>123</b>