

# DIN CEN/TS 16614-2:2020-08 (E)

Public transport - Network and Timetable Exchange (NeTEx) - Part 2: Public transport scheduled time tables exchange format; English version CEN/TS 16614-2:2020, only on CD-ROM

---

<b>Contents</b>	<b>Page</b>
European foreword.....	4
Introduction .....	5
1 Scope.....	6
1.1 General.....	6
1.2 Transport modes.....	6
1.3 Compatibility with existing standards and recommendations .....	6
2 Normative references.....	6
3 Terms and definitions .....	6
4 Symbols and abbreviations .....	7
5 Use Cases for Journey & Journey Time Exchange .....	7
6 Generic Physical Model and XSD mapping rules.....	7
7 Timing Information – Conceptual and physical data model.....	7
7.1 Introduction.....	7
7.2 Journey and Journey Times – Model dependencies.....	8
7.3 Explicit Frames .....	9
7.3.1 Timetable Frame .....	9
7.4 Journey and Journey Times .....	18
7.4.1 Vehicle Journey .....	18
7.4.2 Vehicle Journey Assignment .....	38
7.4.3 Service Journey .....	45
7.4.4 Time Demand Times .....	68
7.4.5 Journey Timing .....	78
7.4.6 Journey Pattern Times .....	86
7.4.7 Vehicle Journey Times.....	94
7.4.8 Vehicle Journey Frequency.....	101
7.4.9 Interchange .....	111
7.4.10 Interchange Rule .....	131
7.4.11 Coupled Journey .....	142
7.4.12 Flexible Service.....	163
7.4.13 Journey Accounting .....	171
7.4.14 Dated Journey.....	175
7.4.15 Passing Times.....	181
7.4.16 Call .....	189
7.4.17 Dated Call .....	208
8 Vehicle Scheduling.....	210
8.1 Vehicle Scheduling – Model dependencies.....	210
8.2 Vehicle Scheduling.....	211
8.2.1 Vehicle Schedule Frame.....	211
8.2.2 Vehicle Service .....	214
8.2.3 Train Service.....	227

<b>Annex A (informative) Monitoring &amp; Control .....</b>	<b>232</b>
<b>A.1 Introduction .....</b>	<b>232</b>
<b>A.2 Monitoring &amp; Control.....</b>	<b>232</b>
<b>A.2.1 Monitored Vehicle Journey.....</b>	<b>232</b>
<b>A.2.2 Dated Passing Times – Physical Model.....</b>	<b>239</b>
<b>Annex B (informative) Driver Scheduling.....</b>	<b>244</b>
<b>B.1 Introduction .....</b>	<b>244</b>
<b>B.2 Driver Scheduling.....</b>	<b>244</b>
<b>B.2.1 Driver Schedule Frame.....</b>	<b>244</b>
<b>B.2.2 Duty.....</b>	<b>247</b>
<b>B.2.3 Duty Stretch .....</b>	<b>254</b>
<b>Annex C (informative) Changes in NeTEx Version 1.1 .....</b>	<b>257</b>
<b>C.1 Introduction .....</b>	<b>257</b>
<b>C.2 General Changes.....</b>	<b>257</b>
<b>C.3 List of changes.....</b>	<b>257</b>
<b>Bibliography .....</b>	<b>258</b>