

# DIN EN 13149-1:2004-12 (E)

Public transport - Road vehicle scheduling and control systems - Part 1: WORLDFIP definition and application rules for onboard data transmission; English version EN 13149-1:2004

---

## Contents

	page
<b>Introduction</b> .....	<b>4</b>
<b>1 Scope</b> .....	<b>5</b>
<b>2 Normative references</b> .....	<b>5</b>
<b>3 Terms and definitions</b> .....	<b>6</b>
<b>4 Typical structure of the network</b> .....	<b>6</b>
4.1 Outline functions of the network .....	6
4.2 Diagram of preferred implementation .....	7
<b>5 Specifications for the on-board data transmission system</b> .....	<b>7</b>
5.1 Data transmission bus .....	7
5.2 General rules .....	7
5.2.1 Introduction .....	7
5.2.2 Network medium .....	7
5.2.3 Transmission speed .....	7
5.2.4 Coupling mode .....	7
5.2.5 Redundant media .....	7
5.2.6 Network configuration rules .....	7
5.2.7 Encoding .....	8
5.2.8 Turnaround time .....	8
5.2.9 Waiting time at the bus arbiter level for an answer .....	8
5.2.10 Jabber inhibit .....	8
5.2.11 Connectors .....	8
5.2.12 Cables .....	8
5.3 Conformance Class .....	8
5.4 Bus Arbiter .....	8
5.5 Presence Variable .....	8
<b>Annex A (informative) CEN/TC 278 Internal report on requirements for on board transmission between equipment</b> .....	<b>9</b>
<b>Bibliography</b> .....	<b>76</b>