

1. INTRODUCTION	1-4
1.1 Authority and Brief	1-4
1.2 The Study Team	1-4
1.3 Background	1-5
1.4 Study Methodology	1-9
1.5 Assistance Provided	1-11
1.6 Structure of Report	1-11
2. CURRENT ARRANGEMENTS	2-1
2.1 Placing Vehicles in Service	2-1
2.2 Vehicle Numbering Systems	2-9
2.3 Railway Coding Systems	2-18
2.4 Relevant EU Directives	2-20
2.5 Legal Obligations	2-24
2.6 Number of Vehicles	2-32
2.7 Uses of Numbering Systems	2-33
2.8 Particular Issues for non-UIC Members	2-36
2.9 Interface with OSJD	2-37
3. ANALYSIS OF EXISTING SYSTEM	3-1
3.1 Legal Compliance	3-1
3.2 Placing Vehicles in Service	3-5
3.3 Numbering Systems	3-6
3.4 Functions of Numbering Systems	3-8
3.5 Vehicles Owned by non-UIC Members	3-9
3.6 Access Rights to Systems	3-11
4. COMPARISONS	4-1
4.1 Objective and Terminology	4-1
4.2 Comparison Philosophy	4-1
4.3 Other Transport Modes	4-3
4.4 Other Industries	4-15
4.5 Railway Systems Elsewhere	4-21
4.6 Conclusions and Parallels	4-29
5. INDUSTRY'S VIEWS AND PROPOSALS	5-1
5.1 Overview of Section	5-1
5.2 Commission's Proposals in RWP II	5-1
5.3 Industry Views	5-6
5.4 The Vehicle Numbering System	5-8
5.5 CODIRAIL	5-9
5.6 RICS Study	5-10
5.7 The Steria Study	5-15
6. OPTIONS FOR CHANGE	6-1
6.1 Key Objectives	6-1
6.2 Key Questions	6-2
6.3 Placing Vehicles in Service and Allocating Identifiers	6-3

6.4	Database and Register Issues	6-3
6.5	Definition of a Vehicle	6-5
6.6	Form of Identifier	6-6
6.7	VIN Issues	6-9
6.8	Maintenance and Insurance	6-11
7.	ANALYSIS OF OPTIONS	7-1
7.1	Placing Vehicles in Service	7-1
7.2	Database and Register Issues	7-3
7.3	Form of Identifier	7-8
7.4	VINs	7-15
7.5	Maintenance and Insurance	7-20
7.6	Cost Benefit Analysis	7-22
7.7	Evaluation of Identification System Options	7-28
7.8	Evaluation of Numbering System Options	7-32
8.	CONCLUSIONS	8-1
8.1	Organisational	8-1
8.2	Technical	8-2
9.	RECOMMENDATIONS	9-1
9.1	Organisational Recommendations	9-1
9.2	Technical Recommendations	9-3

LIST OF APPENDICES

- A. EC STUDY SPECIFICATION
- B. PARTIES CONSULTED
- C. BIBLIOGRAPHY
- D. COUNTRY STUDY – FRANCE
- E. COUNTRY STUDY – GERMANY
- F. COUNTRY STUDY – GREAT BRITAIN
- G. COUNTRY STUDY – POLAND
- H. USES OF VEHICLE NUMBERS IN FREIGHT SYSTEMS
- I. IT SYSTEM TYPES TO WHICH ACCESS IS REQUIRED
- J. VALUES USED IN COST BENEFIT ANALYSIS
- K. CODING OF RECOMMENDED RUNNING IDENTIFIER
- L. LIST OF ABBREVIATIONS