

DIN CEN/TS 17400:2020-06 (E)

Intelligent transport systems - Urban ITS - Mixed vendor environments, methodologies & translators; English version CEN/TS 17400:2020

Contents	Page
European foreword	4
Introduction	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions.....	6
4 Abbreviations.....	8
5 Mixed vendor environments in urban ITS.....	10
5.1 General.....	10
5.2 Interfaces between systems.....	11
5.3 Legacy and migration issues.....	13
6 MVE methodologies.....	14
6.1 Design methodologies	14
6.2 Public procurement constraints.....	16
6.3 Communications	17
7 Translators.....	19
7.1 Introduction.....	19
7.2 Specifications	21
7.3 Location of functional processing.....	21
7.4 Data storage and caching	22
7.5 Data models: concepts, definitions and units	23
7.6 Upper layer protocol adaptors.....	24
7.7 Communications network translation	24
7.8 Information security.....	25
Annex A (informative) Approach of DVM Exchange/IVERA to interoperability	26
A.1 Introduction.....	26
A.2 General architectural approach of DVM-Exchange	26
A.3 General architectural approach of IVERA	28
A.4 Procurement issues and impact	29
A.5 Management and governance	29
A.6 Example DVM Exchange/IVERA implementation: Deventer.....	30
Annex B (informative) Approach of OCIT to interoperability	32
B.1 Introduction.....	32
B.2 General architectural approach	33
B.3 Procurement issues and impact	33
B.4 Management	34
B.5 Example OCIT implementation.....	34

Annex C (informative) Approach of UTMC to interoperability	37
C.1 Introduction	37
C.2 General architectural approach	38
C.3 Procurement issues and impact.....	40
C.4 Management.....	41
C.5 Example UTMC implementation: Reading.....	41
Annex D (informative) Approach of RSMP to interoperability	43
D.1 Introduction	43
D.2 General architectural approach of RSMP.....	44
D.3 Procurement issues and impact.....	46
D.4 Management and governance	47
Bibliography	48