

# ISO/IEC TR 29181-6:2013-04 (E)

## Information technology - Future Network - Problem statement and requirements - Part 6: Media transport

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Symbols (and abbreviated terms) .....	4
5	Overview .....	5
5.1	Networks evolving to support of media .....	5
5.2	User demand for media-based services .....	6
6	General concept of FN media transport .....	7
6.1	Support of connection-oriented and connection-less model .....	8
6.2	Classification of basic services and composite service .....	8
6.3	Deployment of MANE (Media Aware Network Element) in the network .....	9
6.4	Content delivery networking .....	10
7	Problem statement .....	10
7.1	Protocol overhead and useless information .....	10
7.2	Limitation of Layered Coding .....	11
7.3	No media-awareness .....	11
7.4	No information exchange between protocol stacks (layered network stack) .....	11
7.5	Support for new types of media .....	11
7.6	Merging of current solutions in supporting media transport .....	12
7.7	Contents are left to the end-system .....	12
8	Requirements for media transport in Future Network .....	12
8.1	General requirements .....	12
8.2	Requirements related to functionality of MANE .....	14
8.3	Requirements related to media delivery and network .....	14
Annex A (informative)	Use cases for media transport .....	16
A.1	HD Multiparty videoconference .....	16
A.1.1	Current Solution .....	16
A.1.2	Future Network Solution .....	16
A.2	Web browsing .....	17
A.2.1	Current Solution .....	17
A.2.2	Future Network Solution .....	18
A.3	Media Aware Network Element .....	18
A.3.1	Content-aware based congestion control .....	18
A.3.2	Decision-making .....	19
A.3.3	Seamless mobility .....	20
Annex B (informative)	Related standardization and research activities .....	22

<b>B.1</b>	<b>MMT (MPEG Media Transport)</b> .....	<b>22</b>
<b>B.2</b>	<b>SMART of Ambient Network</b> .....	<b>23</b>
<b>B.3</b>	<b>MEDIEVAL (MultimEDIA transport for mobile Video Applications)</b> .....	<b>24</b>
<b>B.4</b>	<b>CDNi (Content Delivery Network Interconnection)</b> .....	<b>25</b>
<b>B.5</b>	<b>ALICANTE architecture</b> .....	<b>26</b>
<b>Bibliography</b> .....		<b>29</b>