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Source	**Telecom ParisTech, Orange, TNO, Canon Research Centre France**
Status	**For consideration during the 108th MPEG meeting**
Title	**Analysis of Conformance Impacts and Workplan for Conformance and Reference Software for the WD of ISO/IEC 23009-1 Amd.2**
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1   Introduction

At MPEG #107, the WD of the amendment 2 of 23009-1 has been released. This document provides an analysis of the conformance impacts associated with the current WD of 23009-1 amendment 2 and proposes a workplan for the conformance and reference software related to the technologies in the WD of ISO/IEC 23009-1 Amd.2.

2   Work Plan for Conformance Software

	Feature	Expected Completion Date	Responsible
1	Support for URLQueryInfo	07/2014	Orange
2	Support for SRD	07/2014	Telecom ParisTech, TNO, Canon Research Centre France, Sharp

3   Tentative Work Plan for Test Vectors

	Feature	Expected Completion Date	Responsible
1	Test Vectors that include URLQueryInfo	07/2014	Orange, Huawei
2	Test Vectors that include SRD	07/2014	Telecom ParisTech, TNO, Canon Research Centre France, Sharp

4 Conformance Impacts

4.1 Generalised URL parameters

	Clause in 23009-1	Rule	Conformance Check Implementation
1	5.8.5.8	If an EssentialProperty or SupplementalProperty descriptor with @schemeIdUri equal to "urn:mpeg:dash:urlparam:2014" is present, then a UrlQueryInfo element shall be present within this descriptor	
2	5.8.5.8	At most one descriptor with @schemeIdUri equal to "urn:mpeg:dash:urlparam:2014" shall be present at each AdaptationSet or Representation level	
3	5.8.5.8	In a UrlQueryInfo descriptor, at most one of @useMPDUrlQuery, @queryString, @xlink:href shall be present	
4	5.8.5.8	If an EssentialProperty or SupplementalProperty descriptor with @schemeIdUri equal to "urn:mpeg:dash:urlparam:2014" is present, then $querypart$, $fragmentpart$, $query:param$, $fragment:param$ may be present in URL templates of media segments	

4.2 Spatial Relationship Description

	Clause in 23009-1	Rule	Conformance Check Implementation
1	5.8.5.7	If an EssentialProperty or SupplementalProperty descriptor with @schemeIdUri equal to "urn:mpeg:dash:srd:2014" is present, then the @value attribute must contain at least the mandatory parameters, i.e. source_id, x, y, w, h. In addition, if present, each parameter value has to match the expected type format, e.g. positive or null integer.	
2	5.8.5.7	If an EssentialProperty or SupplementalProperty descriptor with @schemeIdUri equal to "urn:mpeg:dash:srd:2014" is present and the @value attribute contains at least one optional parameter then all optional parameters must be present and expressed in the expected format and order.	
3	5.8.5.7	If a Period contains one or more EssentialProperty with @schemeIdUri equal to "urn:mpeg:dash:srd:2014" then it shall contain at least one SupplementalProperty with @schemeIdUri equal to "urn:mpeg:dash:srd:2014". In addition, at least one of the latter must not be located in an AdaptationSet which already contains an EssentialProperty with @schemeIdUri equal to "urn:mpeg:dash:srd:2014".	
4	5.8.5.7	For a given source_id of the @value attribute, at least one of the EssentialProperty in the containing Period shall specify the optional parameters. i.e. W,H and group_id (the	

		latter due to clause 2).	

5   Other related Work Plan

	Feature	Expected Completion Date	Responsible
1	Provide enhanced description of the implementation guidelines relative to URL_PARAM	The MPEG meeting following CD stage	