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**AMENDMENT 4**  
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**Information technology — Multimedia  
framework (MPEG-21) —**

**Part 8:  
Reference software**

**AMENDMENT 4: Media value chain  
ontology extensions on time-segments  
and multi-track audio**

*Technologies de l'information — Cadre multimédia (MPEG-21) —  
Partie 8: Logiciel de référence*

*AMENDEMENT 4: Extensions de l'ontologie de la chaîne de valeur aux  
segments temporels et à l'audio multipiste*



Reference number  
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# Information technology — Multimedia framework (MPEG-21) —

## Part 8: Reference software

### AMENDMENT 4: Media value chain ontology extensions on time-segments and multi-track audio

Clause 5.22.2 of ISO/IEC 21000-8:2008/Amd 2:2011

Replace Table 2 with:

**Table 2 — Commands to be executed on the ontology**

Table A.1 — command	Semantic	Parameters	Return
u	Unloads the ontology		(String) "ok" on success
lu	Lists the users in the ontology		(String []) Users in the ontology
lip	Lists the IP Entities in the ontology		(String []) IP Entities in the ontology
cu USERNAME	Creates a user	USERNAME unique name of the user name to be created	(String) "ok" on success
du USERNAME	Deletes a user	USERNAME unique name of the user name to be deleted	(String) "ok" on success
cip ACTEDBY ACTION ACTEDOVER NEWIPENTITY	Executes an action	ACTEDBY unique name of the user which acts the action ACTION to be acted ACTEDOVER IPEntity over which the action is acted, if any, or "none" NEWIPENTITY name of the created IPEntity, if any, or "none".	(String) "ok" on success "error" on error "not permitted" if an authorisation is needed

Table 2 (continued)

Table A.1 — command	Semantic	Parameters	Return
cp ISSUER ACTION ACTEDOVER ACTEDBY	Creates a permission	ISSUER user issuing the permission ACTION permitted action (obtained from a create action command) ACTEDOVER resource over which the action is acted ACTEDBY user which is entitled to act the action	(String) name of the created permission
v ACTION ACTEDOVER ACTEDBY	Validates an action	ACTION action to be validated ACTEDOVER IP Entity over which the action is acted ACTEDBY user which executed the action	(String) ok on success
cs IPENTITY SEGIPENTITY START END TRACK	Creates a Segment of an IP Entity containing an existing IP Entity	IPENTITY name of the IPEntity containing the Segment SEGIPENTITY name of the IPEntity contained by the Segment START start point of the segment on the time line in seconds END end point of the segment on the time line in seconds TRACK track id	(String) ok on success
ct IPENTITY TRACKNO	Specifies a Track of a multi-track audio IP Entity	IPENTITY name of the multi-track audio IPEntity TRACKNO track number (integer)	(String) ok on success
sda IPENTITY TIMELINE	Sets the media domain of an IP Entity to "audio" and optionally associate a time line.	IPENTITY name of the IPEntity TIMELINE if TIMELINE="tl" a time line is associated with the IPEntity	(String) ok on success
lic IPENTITY	Lists the component IP Entities of a composite IP Entity	IPENTITY name of the composite IPEntity	(String []) List of component IP Entities
lcu COLLECTIVE	Lists the users of a collective	COLLECTIVE name of the collective	(String []) List of users
ac USER COLLECTIVE	Adds a user to a collective	USER name of the user COLLECTIVE name of the collective	(String) ok on success