<u>ContentDirectory:2</u> Service Annex A – Control Point Requirements

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Authors	Company
Rajendra Bopardikar	Intel
Suman Sharma	Intel
Keith Miller	Nokia
Jeffrey Kang	Philips
Wouter van der Beek	Philips
Russell Berkoff	Samsung
Richard Bardini	Sony

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Annex A. Control Point Requirements (Normative)

This Annex lists the actions that a Control Point implementation that seeks certification as a UPnP Certified <u>ContentDirectory:2</u> Control Point must be capable of invoking.

The following table amends Table 2-6 Actions to add Control Point requirements, and hence supersedes Table 2-6 Actions.

Name	R/O ¹	Control Point R/O ²
<u>GetSearchCapabilities()</u>	<u>R</u>	<u>0</u>
<u>GetSortCapabilities()</u>	<u>R</u>	<u>0</u>
<u>GetSortExtensionCapabilities()</u>	\underline{O}^3	<u>0</u>
<u>GetFeatureList()</u>	<u>R</u>	<u>0</u>
<u>GetSystemUpdateID()</u>	<u>R</u>	<u>0</u>
<u>Browse()</u>	<u>R</u>	<u>R</u>
<u>Search()</u>	<u>0</u>	<u>0</u>
<u>CreateObject()</u>	<u>0</u>	<u>0</u>
<u>DestroyObject()</u>	<u>0</u>	<u>0</u>
<u>UpdateObject()</u>	<u>0</u>	<u>0</u>
<u>MoveObject()</u>	<u>0</u>	<u>0</u>
<u>ImportResource()</u>	<u>0</u>	<u>0</u>
<u>ExportResource()</u>	<u>0</u>	<u>0</u>
<u>DeleteResource()</u>	<u>0</u>	<u>0</u>
<u>StopTransferResource()</u>	<u>0</u>	<u>0</u>
<u>GetTransferProgress()</u>	<u>0</u>	<u>0</u>
<u>CreateReference()</u>	<u>0</u>	<u>0</u>
Non-standard actions implemented by a UPnP vendor go here	<u>X</u>	<u>X</u>

Table A-1: Actions for ContentDirectory:2 Service

¹ For a device this column indicates whether the action MUST be implemented or not, where <u>*R*</u> = REQUIRED, <u>*O*</u> = OPTIONAL, <u>*CR*</u> = CONDITIONALLY REQUIRED, <u>*CO*</u> = CONDITIONALLY OPTIONAL, <u>*X*</u> = Non-standard, add <u>-*D*</u> when deprecated (e.g., <u>*R*-*D*</u>, <u>*O*-*D*</u>).

² For a control point this column indicates whether a control point MUST be capable of invoking this action, where <u>*R*</u> = REQUIRED, <u>*O*</u> = OPTIONAL, <u>*CR*</u> = CONDITIONALLY REQUIRED, <u>*CO*</u> = CONDITIONALLY OPTIONAL, <u>*X*</u> = Non-standard, add <u>-*D*</u> when deprecated (e.g., <u>*R*-*D*</u>, <u>*O*-*D*</u>).

³ REQUIRED if implementation supports sort modifiers other than " \pm " and " \pm "