

ISO/IEC 29341-18-12:2011-08 (E)

Information technology - UPnP Device Architecture - Part 18-12: Remote Access Device Control Protocol - Remote Access Discovery Agent Synchronization Service

Contents	Page
1 Overview and Scope.....	3
1.1 Introduction	3
1.2 Notation	4
1.3 Vendor-defined Extensions	4
1.4 References.....	4
1.4.1 Normative References	4
1.4.2 Informative References	5
2 Service Modeling Definitions.....	5
2.1 Service Type	5
2.2 Terms and Abbreviations	6
2.2.1 Abbreviations.....	6
2.2.2 Terms	6
2.3 <i>RADASync</i> Service Architecture	7
2.4 State Variables.....	7
2.4.1 State Variable Overview.....	7
2.4.2 <i>SystemInfo</i>	7
2.4.3 <i>A_ARG_TYPE_DDDLocation</i>	8
2.4.4 <i>A_ARG_TYPE_DeviceInfoList</i>	8
2.4.5 <i>A_ARG_TYPE_UUID</i>	8
2.5 Eventing and Moderation	8
2.6 Actions.....	9
2.6.1 <i>AddRemoteDevices()</i>	9
2.6.2 <i>RemoveRemoteDevices()</i>	10
2.6.3 <i>SetDDDLocation()</i>	11
2.6.4 <i>HeartbeatUpdate()</i>	12
2.6.5 Error Code Summary	13
2.7 Description of Service Requirements	13
2.7.1 Interaction	13
2.7.2 Initialization	13
2.7.3 Synchronization	14
2.7.4 SSDP Offloading.....	14
2.7.5 Heartbeat Mechanism	15
2.7.6 Administrative Shutdown.....	15
2.7.7 Signalling IPv6 Devices to Remote Networks.....	16
3 XML Service Description	16
4 Test	17
Annex A (normative) RADiscoveryAgent Data Structures.....	18
A.1 SystemInfo Template	18
A.2 DeviceInfoList Template	21

Figure 1-1 — SSDP Aggregation.....	3
Table 2-1 — Abbreviations.....	6
Table 2-2 — State Variables	7
Table 2-3 — Eventing and Moderation	8
Table 2-4 — Actions	9
Table 2-5 — Arguments for <u>AddRemoteDevices()</u>	9
Table 2-6 — Error Codes for <u>AddRemoteDevices()</u>	10
Table 2-7 — Arguments for <u>RemoveRemoteDevices()</u>	10
Table 2-8 — Error Codes for <u>RemoveRemoteDevices()</u>	11
Table 2-9 — Arguments for <u>SetDDDLocation()</u>	11
Table 2-10 — Error Codes for <u>SetDDDLocation()</u>	12
Table 2-11 — Arguments for <u>HeartbeatUpdate()</u>	12
Table 2-12 — Error Codes for <u>HeartbeatUpdate()</u>	13
Table 2-13 — Error Code Summary	13