

**PUCC Metadata Specification -  
Home Appliance Part 4 Other Devices  
(Version 1.0 - September 30, 2007)**

**Peer-to-Peer Universal Computing Consortium (PUCC)**

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## 1. Introduction

This document defines the Pucc metadata specification for other devices.

## 2. Terminology

### 2.1. Definitions

The following terms are defined in the Pucc Device Discovery and Service Invocation Protocol Specification.

- Service;

- Device;

The template for devices and services are defined by the “Pucc Device and Service Metadata Template”.

### 2.2. Abbreviations

<b>Pucc</b>	Peer-to-Peer Universal Computing Consortium
<b>TD</b>	Technical Document
<b>TS</b>	Technical Specification
<b>TR</b>	Technical Report
<b>WG</b>	Working group

## 3. Reference

[Pucc] “Peer-to-Peer Universal Computing Consortium”,

URL: <http://www.pucc.jp/>

[XML] “Extensible Markup Language (XML) 1.0 (Second Edition) “, W3C Recommendation 6 October 2000, T.

Bray et al. URL: <http://www.w3.org/TR/2000/REC-xml-20001006>

[HTTP] “Hypertext Transfer Protocol -- HTTP/1.1”, RFC2616, R. Fielding et al., June 1999.

URL:<http://www.ietf.org/rfc/rfc2616.txt>

[TCP] “Transmission Control Protocol” RFC793, J. Postel. September1981.

URL: <http://www.ietf.org/rfc/rfc793.txt>

[UDP] “User Datagram Protocol”, RFC768, J. Postel. August 28 1980.

URL: <http://www.ietf.org/rfc/rfc768.txt>

[IP] “Internet Protocol” RFC791, J. Postel. September 1981.

URL: <http://www.ietf.org/rfc/rfc791.txt>

[URI] “Universal Resource Identifier”

URL: <http://www.w3.org/Addressing/>

## **4. Goal and Requirements**

### **4.1. Goal**

The goal of this document is:

- ◆ To define the PUCC metadata (including composite services) for other devices.

### **4.2. Requirements**

#### **4.2.1. Generality**

The metadata description must be independent of any particular manufacture.

## 5. Composite Services

This chapter defines the PUCC metadata for composite services, which encompass multiple devices.

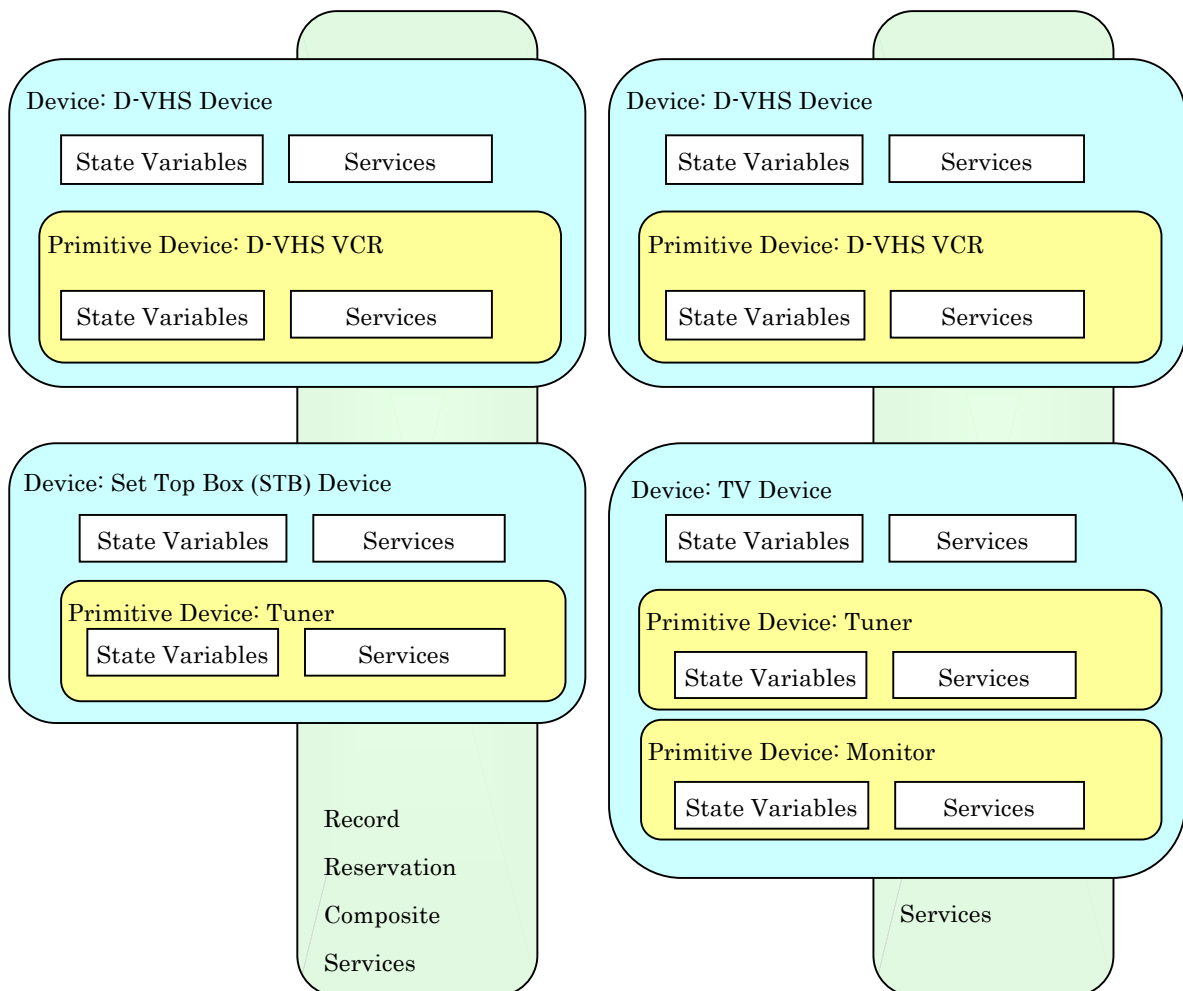
### 5.1. Record Reservation Composite Services

#### 5.1.1. Description

The record reservation composite services are services which perform a record reservation in D-VHS devices in combination with other IEEE 1394 devices.

#### 5.1.2. Model

The record reservation services are services which encompass any IEEE1394 D-VHS devices and IEEE1394 STB devices or TV devices.



**Figure 5.1.2-1. Record reservation composite service model**

### 5.1.3. Services

A list of record reservation composite services is shown below.

Table 5.1.3-1 Record reservation composite services

	Service Name	Description
1	SetRecordReservation	Sets a recording reservation
2	CancelRecordReservation	Cancels a recording reservation
3	GetRecordReservationList	Obtains a list of recording reservations

The details of each service are shown below.

#### 5.1.3.1 SetRecordReservation

(1) Description

Sets a recording reservation

(2) Service type identifier

<http://www.pucc.jp/2007/09/Service/SetRecordReservation>

(3) Input parameter

Table 5.1.3.1-1 SetRecordReservation service input parameters

	Parameter	Description	Data Type
1	channelType	Channel type	string
2	channelNumber	Channel number (0-999)	integer
3	startTime	Start time (ISO8601 format)	dateTime
4	endTime	End time (ISO8601 format)	dateTime
5	description	Program name (any string)	string

Table 5.1.3.1-2 Values indicating channel types

	Value	Meaning
1	TerrestrialDigital	Indicates a terrestrial digital broadcasting channel
2	BSDigital	Indicates a BS digital broadcasting channel
3	CSDigital1	Indicates the channel of Broadband 110°CS digital broadcasting(PlatOne)
4	CSDigital2	Indicates the channel of Broadband 110°CS digital

	broadcasting (SkyPerfecTV!2)
--	------------------------------

(4) Output parameter

Table 5.1.3.1-3 SetRecordReservation service output parameters

	Parameter	Description	Data Type
1	result	A result of a reservation	string
2	reason	A reason for a failure. Used only when a reservation results in failure. Sets no value when a reservation is successful.	string
3	reservationID	A unique reservation ID (an arbitrary character string)	string

Table 5.1.3.1-4 Values indicating results

	Value	Meaning
1	Success	The result is successful.
2	Failure	The result is unsuccessful.

Table 5.1.3.1-5 Values indicating reasons

	Value	Meaning
1	NotImplemented	The service is not yet implemented.
2	Rejected	The service is rejected.

### 5.1.3.2 CancelRecordReservation

(1) Description

Cancels a recording reservation

(2) Service type identifier

<http://www.pucc.jp/2007/09/Service/CancelRecordReservation>

(3) Input parameter

Table 5.1.3.2-1 CancelRecordReservations service input parameter

	Parameter	Description	Data Type
1	reservationID	The reservation ID assigned by the SetRecordReservation service.	string

(4)Output parameter

Table 5.1.3.2-2 CancelRecordReservation service output parameters

	Parameter	Description	Data Type
1	result	A result of a cancel	string
2	reason	A reason for a failure. Used only when a cancel results in failure. Sets no value when a cancel is successful.	string

Table 5.1.3.2-3 Values indicating results

	Value	Meaning
1	Success	The result is successful
2	Failure	The result is unsuccessful.

Table 5.1.3.2-4 Values indicating reasons

	Value	Meaning
1	NotImplemented	The service is not yet implemented.
2	Rejected	The service is rejected.

### 5.1.3.3 GetRecordReservationList

(1)Description

Obtains a list of recording reservations

(2) Service type identifier

<http://www.pucc.jp/2007/09/Service/GetRecordReservationList>

(3) Input parameter

Non

(4) Output parameter

Table 5.1.3.3-1 GetRecordReservationList service output parameters

	Parameter	Description	Data Type
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1	result	A result of a list acquisition	string
2	reason	A reason for a failure. A reason for a failure. Used only when a list acquisition results in failure. Sets no value when a list acquisition is successful.	string
3	recordReservationList	A list of reservations	array

Table 5.1.3.3-2 Values indicating results

	Value	Meaning
1	Success	The result is successful
2	Failure	The result is unsuccessful.

Table 5.1.3.3-3 Values indicating reasons

	Value	Meaning
1	NotImplemented	The service is not yet implemented.
2	Rejected	The service is rejected.

Table 5.1.3.3-4 RecordReservationList definition

	Name	Data Type	Description	Remarks
1	recordReservationList	array	A list of recording reservation information	—
2	recordReservationData	struct	Recording reservation information	—
3	reservationID	string	The reservation ID assigned by the SetRecordReservation service	—
4	channelType	string	Channel type	See also Table 5.1.3.3-5
5	channelNumber	integer	Channel number (0-999)	—
6	startTime	string	Start time (ISO8601 format)	—
7	endTime	string	End time (ISO8601 format)	—
8	description	string	An arbitrary character string indicating the name of a program	—

Table 5.1.3.3-5 Values indicating channel types

	Value	Meaning
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1	TerrestrialDigital	Indicates a terrestrial digital broadcasting channel
2	BSDigital	Indicates a BS digital broadcasting channel
3	CSDigital1	Indicates the channel of Broadband 110°CS digital broadcasting(PlatOne)
4	CSDigital2	Indicates the channel of Broadband 110°CS digital broadcasting (SkyPerfecTV!2)

#### 5.1.4. Metadata

The metadata templates of each of the record reservation composite services are shown below.

##### 5.1.4.1 SetRecordReservation

```

<?xml version="1.0" ?>
<Service type="http://www.pucc.jp/2007/09/Service/SetRecordReservation"
  name="SetRecordReservation">
  <InputParameterList>
    <Parameter name="channelType" datatype="string">
      <AllowedValueList>
        <AllowedValue>TerrestrialDigital<AllowedValue>
        <AllowedValue>BSDigital<AllowedValue>
        <AllowedValue>CSDigital1<AllowedValue>
        <AllowedValue>CSDigital2<AllowedValue>
      </AllowedValueList>
    </Parameter>
    <Parameter name="channelNumber" datatype="integer">
      <AllowedValueRange>
        <Minimum>0</Minimum>
        <Maximum>999</Maximum>
      </AllowedValueRange>
    </Parameter>
    <Parameter name="startTime" datatype="dateTime"/>
    <Parameter name="endTime" datatype="dateTime"/>
    <Parameter name="description" datatype="string"/>
  </InputParameterList>
  <OutputParameterList>
    <Parameter name="result" datatype="string">
      <AllowedValueList>
        <AllowedValue>Success<AllowedValue>
        <AllowedValue>Failure<AllowedValue>
      </AllowedValueList>
    </Parameter>
    <Parameter name="reason" datatype="string">
      <AllowedValueList>
        <AllowedValue>NotImplemented<AllowedValue>
        <AllowedValue>Rejected<AllowedValue>
      </AllowedValueList>
    </Parameter>
    <Parameter name="reservationID" datatype="string"/>
  </OutputParameterList>
</Service>

```

#### 5.1.4.2 CancelRecordReservation

```
<?xml version="1.0" ?>
<Service type="http://www.pucc.jp/2007/09/Service/CancelRecordReservation"
  name="CancelRecordReservation">
  <InputParameterList>
    <Parameter name="reservationID" datatype="string"/>
  </InputParameterList>
  <OutputParameterList>
    <Parameter name="result" datatype="string">
      <AllowedValueList>
        <AllowedValue>Success</AllowedValue>
        <AllowedValue>Failure</AllowedValue>
      </AllowedValueList>
    </Parameter>
    <Parameter name="reason" datatype="string">
      <AllowedValueList>
        <AllowedValue>NotImplemented</AllowedValue>
        <AllowedValue>Rejected</AllowedValue>
      </AllowedValueList>
    </Parameter>
  </OutputParameterList>
</Service>
```

### 5.1.4.3 GetRecordReservationList

```

<?xml version="1.0" ?>
<Service type="http://www.pucc.jp/2007/09/Service/GetRecordReservationList"
  name="GetRecordReservationList">
  <InputParameterList/>
  <OutputParameterList>
    <Parameter name="result" datatype="string">
      <AllowedValueList>
        <AllowedValue>Success<AllowedValue>
        <AllowedValue>Failure<AllowedValue>
      </AllowedValueList>
    </Parameter>
    <Parameter name="reason" datatype="string">
      <AllowedValueList>
        <AllowedValue>NotImplemented<AllowedValue>
        <AllowedValue>Rejected<AllowedValue>
      </AllowedValueList>
    </Parameter>
    <Parameter name="recordReservationList" datatype="array">
      <Parameter name="recordReservationData" datatype="struct">
        <Parameter name="reservationID" datatype="string"/>
        <Parameter name="channelType" datatype="string">
          <AllowedValueList>
            <AllowedValue>TerrestrialDigital<AllowedValue>
            <AllowedValue>BSDigital<AllowedValue>
            <AllowedValue>CSDigital1<AllowedValue>
            <AllowedValue>CSDigital2<AllowedValue>
          </AllowedValueList>
        </Parameter>
        <Parameter name="channelNumber" datatype="integer">
          <AllowedValueRange>
            <Minimum>0</Minimum>
            <Maximum>999</Maximum>
          </AllowedValueRange>
        </Parameter>
        <Parameter name="startTime" datatype="dateTime"/>
        <Parameter name="endTime" datatype="dateTime"/>
        <Parameter name="description" datatype="string"/>
      </Parameter>
    </Parameter>
  </OutputParameterList>
</Service>

```

## Appendix A. Version History

Document number	Date	Note
Pucc Metadata Specification – Home Appliance Part 4 Other Devices	30 Sep, 2007	Version 1.0