

[MS-DPWSRP]:

Devices Profile for Web Services (DPWS): Shared Resource Publishing Data Structure

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1 Introduction

The Devices Profile for Web Services (DPWS): Shared Resource Publishing Data Structure describes the Shell Publishing data structure. This data structure is used by the HomeGroup Protocol to advertise shared files and folders in a HomeGroup peer-to-peer network environment.

Sections 1.7 and 2 of this specification are normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in [\[RFC2119\]](#). All other sections and examples in this specification are informative.

1.1 Glossary

The following terms are specific to this document:

homegroup: A group of one or more computers that are AES joined together by using Advanced Encryption Standard (AES) through the HomeGroup Protocol, which are able to share resources (files, printers, and so on) with each other.

HomeGroup machine: The machine where files are being shared, and that creates the Shell Publishing data structure.

HomeGroup user: A user account on the **HomeGroup machine** where files are being shared.

Internet SID: A user **SID** that represents an online identity. The **SID** is unique across all providers and all machines. The **SID** is a hash of the identity's unique ID and the provider GUID.

item ID list (IDList): A data structure that refers to a location. An item ID list is a multi-segment data structure where each segment's content is defined by a data source that is responsible for the location in the namespace referred to by the preceding segments.

security identifier (SID): An identifier for security principals in Windows that is used to identify an account or a group. Conceptually, the **SID** is composed of an account authority portion (typically a domain) and a smaller integer representing an identity relative to the account authority, termed the relative identifier (RID). The **SID** format is specified in [\[MS-DTYP\]](#) section 2.4.2; a string representation of **SIDs** is specified in [\[MS-DTYP\]](#) section 2.4.2 and [\[MS-AZOD\]](#) section 1.1.1.2.

Web Services on Devices (WSD): A function-discovery protocol used to discover and communicate certain data structures in a HomeGroup network environment. Implementation details are specified in [\[DPWS\]](#).

XML schema: A description of a type of XML document that is typically expressed in terms of constraints on the structure and content of documents of that type, in addition to the basic syntax constraints that are imposed by XML itself. An XML schema provides a view of a document type at a relatively high level of abstraction.

MAY, SHOULD, MUST, SHOULD NOT, MUST NOT: These terms (in all caps) are used as defined in [\[RFC2119\]](#). All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

1.2 References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the [Errata](#).

1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact dochelp@microsoft.com. We will assist you in finding the relevant information.

[DPWS] Chans, S., Conti, D., Schlimmer, J., et al., "Devices Profile for Web Services", February 2006, <http://specs.xmlsoap.org/ws/2006/02/devprof/devicesprofile.pdf>

[MS-DTYP] Microsoft Corporation, "[Windows Data Types](#)".

[MS-HGRP] Microsoft Corporation, "[HomeGroup Protocol](#)".

[MS-SHLLINK] Microsoft Corporation, "[Shell Link \(.LNK\) Binary File Format](#)".

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997, <http://www.rfc-editor.org/rfc/rfc2119.txt>

[RFC3548] Josefsson, S., Ed., "The Base16, Base32, and Base64 Data Encodings", RFC 3548, July 2003, <http://www.rfc-editor.org/rfc/rfc3548.txt>

1.2.2 Informative References

[XMLNS] Bray, T., Hollander, D., Layman, A., et al., Eds., "Namespaces in XML 1.0 (Third Edition)", W3C Recommendation, December 2009, <http://www.w3.org/TR/2009/REC-xml-names-20091208/>

1.3 Overview

This specification extends DPWS [\[DPWS\]](#) by adding the Shell Publishing data structure. The Shell Publishing data structure describes shared files and folders by each **HomeGroup user** on each **HomeGroup machine** in a **HomeGroup** network environment.

1.4 Relationship to Protocols and Other Structures

The Shell Publishing data structure is a data structure format made available to HomeGroup networked environment by a DPWS provider.

Shell Publishing Extension	This extension
DPWS	Industry standard
SOAP	Industry standard

1.5 Applicability Statement

Use of the Shell Publishing data structure is suitable when machines in a HomeGroup network environment share files and folders among HomeGroup members.

1.6 Versioning and Localization

This document covers versioning issues in the following areas:

- **Supported Transports:** This data structure uses the DPWS provider as the only transport.
- **Protocol Versions:** This data structure is not versioned.

- **Security and Authentication Methods:** This data structure does not support authentication. The data structure is signed using a HomeGroup public key (see [\[MS-HGRP\]](#) section 3.1.4.5).
- **Localization:** This data structure does not support localization.
- **Capability Negotiation:** This data structure does not support explicit capability negotiation.

1.7 Vendor-Extensible Fields

There are no vendor-extensible fields. The **XML schema** of the data structure is not validated, making it possible for vendors to extend the Shell Publishing data structure by adding additional elements and/or attributes. The extended data will not be interpreted unless consumed by the vendor who added it.

2 Structures

2.1 The Shell Publishing Data Structure

The Shell Publishing data structure describes a method of publishing and discovering shared files and folders in a HomeGroup configured network environment.

The Shell Publishing data structure MUST be transported using **WSD**. The WSD type MUST be ShellPublishing.

This structure uses SID structures as specified in [\[MS-DTYP\]](#) section 2.4.2.

An individual HomeGroup member MUST publish certain data about his or her shared files and folders as specified in section [2.1.2.1](#), in order to participate in the HomeGroup sharing.

The Shell Publishing XML data structure is defined as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"
attributeFormDefault="unqualified">
  <xs:simpleType name="serializedType">
    <xs:restriction base="xs:string">
      <xs:pattern value="\{[A-Za-z0-9+/*\}]" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="pi" type="pi" />
</xs:schema>
```

pi: A **pi** complex type, as specified in section 2.1.2.1. Published items. Serves as an envelope for descriptions of a HomeGroup user's shared files.

2.1.1 Namespaces

XML Namespace	Reference
http://www.w3.org/2001/XMLSchema	[XMLNS]

2.1.2 Complex Types

The following table summarizes the set of common XML schema complex types defined by this specification.

Complex Type	Description
pi	Published items. The envelope for the description of shared files and folders.
usersFilesDescription	Describes shared files and folders per HomeGroup user, per HomeGroup machine in the HomeGroup.
o	Owner. Describes a HomeGroup user in the HomeGroup machine that is sharing the files and folders on the HomeGroup.
il	Items list. Describes a list of items that are being shared by a HomeGroup user in a HomeGroup machine on the HomeGroup.
dil	Discretionary access items list. Describes a list of items that have their security set so that only a specific set of HomeGroup users has access to them.

Complex Type	Description
i	Item. Describes a file or folder that is being shared by a HomeGroup user in a HomeGroup machine on the HomeGroup.
ul	User list. Describes a list of SIDs that identifies the users the particular item is shared with.

2.1.2.1 pi

The pi (published items) complex type is an envelope that contains the description of shared files and folders.

```
<xs:element name="pi">
  <xs:complexType>
    <xs:element name="usersFilesDescription" type="usersFilesDescription" />
    <xs:complexType>
  </xs:element>
```

usersFilesDescription: A description of the HomeGroup user's files. Defines the resources shared by a HomeGroup user on a HomeGroup machine.

2.1.2.2 usersFilesDescription

The usersFilesDescription complex type describes shared files and folders per HomeGroup user, per HomeGroup machine in the HomeGroup.

```
<xs:element name="usersFilesDescription">
  <xs:complexType>
    <xs:all>
      <xs:element name="o" type="o" />
      <xs:element name="il" type="il" minOccurs="0" />
      <xs:element name="dil" type="dil" minOccurs="0" />
    </xs:all>
  </xs:complexType>
</xs:element>
```

o: The owner of the shared resource. The owner is typically the HomeGroup user who designates a resource for sharing.

il: Optional element. When present, contains a sequence of one or more items (the item list).

dil: Optional element. When present, contains a sequence of one or more items (the item list), which are shared with specific other members of the HomeGroup using discretionary access.

The **usersFilesDescription** MUST contain at least an **il** or a **dil** element. If both the **il** and **dil** elements are missing, the message will be discarded.

2.1.2.3 o

The o (owner) complex type describes a HomeGroup user in the HomeGroup machine that is sharing the files and folders on the HomeGroup.

```
<xs:element name="o">
  <xs:complexType>
    <xs:annotation>
```

```

        <xs:documentation>owner information, attributes are user name, alias and
        SID</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:attribute name="un" type="xs:string" />
        <xs:attribute name="a" type="xs:string" />
        <xs:attribute name="s" type="xs:string" />
      </xs:complexType>
    </xs:element>

```

- un:** The owner's user name (display name). This is the display name for the HomeGroup user on the HomeGroup machine sharing the files and folders on the HomeGroup.
- a:** The owner's alias. Describes the **alias object** of the HomeGroup user on the HomeGroup machine sharing the files and folders on the HomeGroup. This value MAY be used by the implementation as a hint for the HomeGroup user identity.
- s:** Concatenation of the HomeGroup GUID and the SID (security identifier) of the account sharing the files on the HomeGroup machine. This is the unique identifier for the HomeGroup and the security identifier for the HomeGroup user on the HomeGroup machine that is sharing the files and folders on the HomeGroup.

2.1.2.4 il

The il (items list) complex type describes a list of items that are being shared by a HomeGroup user in a HomeGroup machine on the HomeGroup.

```

<xs:element name="il">
  <xs:complexType>
    <xs:annotation>
      <xs:documentation>item list</xs:documentation>
    </xs:annotation>
    <xs:all>
      <xs:element name="i" minOccurs="1" maxOccurs="unbounded" type="i" />
    </xs:all>
  </xs:complexType>
</xs:element>

```

- i:** An item in the item list. Contains a description of shared files and folders for the HomeGroup user on the HomeGroup machine.

2.1.2.5 dil

The dil (discretionary access items list) complex type describes a list of items that have their security set so that only a specific set of HomeGroup users has access to them. Clients of the information SHOULD only present these items to the user if the user's security identifier (SID) values match one of the user identities in the **ul** (user list) complex type. Items that are shared by using discretionary access can be shared only with users represented by **Internet SIDs**.

```

<xs:element name="dil">
  <xs:complexType>
    <xs:annotation>
      <xs:documentation>discretionary access item list</xs:documentation>
    </xs:annotation>
    <xs:all>
      <xs:element name="i" minOccurs="1" maxOccurs="unbounded" type="i" />
    </xs:all>
  </xs:complexType>
</xs:element>

```

```

    </xs:complexType>
  </xs:element>

```

i: An item in the item list. Contains a description of shared files and folders for the HomeGroup user on the HomeGroup machine.

2.1.2.6 i

The **i** (item) complex type describes a file or folder that is being shared by a HomeGroup user in a HomeGroup machine on the HomeGroup.

```

<xs:element name="i" minOccurs="1"
maxOccurs="unbounded">
  <xs:complexType>
    <xs:annotation>
      <xs:documentation>item, sub elements are path (absolute UNC or machine relative),
display name and BASE-64 encoded serialized shell link</xs:documentation>
    </xs:annotation>
    <xs:all>
      <xs:element name="p" type="xs:anyURI"/>
      <xs:element name="dn" type="xs:string" minOccurs="0" />
      <xs:element name="sl" type="serializedType"/>
      <xs:element name="ul" type="ul" minOccurs="0" />
    </xs:all>
  </xs:complexType>
</xs:element>

```

p: An absolute **UNC** path or a relative machine path to the shared file or folder. If the path begins with a "\ " then it is a machine-relative path. Relative paths are related to the HomeGroup machine where the message originated. The machine name is taken from the WSD Shell Publishing message that is transporting this data structure.

This element is used to access the shared resource if the shell link element **pi.usersFilesDescription.il.i.sl** is not present or if the HomeGroup machine originating the message has changed since the link was created.

dn: Optional element. When present, contains the display name of the item. The display name is sent so that if the message client implementation uses the display name, it is unnecessary to use additional protocols to retrieve the display name.

sl: A base-64-encoded binary stream representing a serialized shell link. The shell link references a file or folder shared by the HomeGroup user on the machine and contains the associated **item ID list**. This information is sent so that if the implementation uses the item ID list, it is unnecessary to use additional protocols to retrieve the ID list. Shell Links are specified in [\[MS-SHLLINK\]](#).

This field uses nonstandard base-64 encoding as specified in section [2.1.4.2](#).

ul: Optional element. When present, contains the users list. This is a list of Internet SIDs (security identifiers) that identifies the users that have discretionary access to a shared item. This list SHOULD only be included if the user is sharing out items by using discretionary access.

2.1.2.7 ul

The **ul** (user list) complex type describes a list of SIDs that identifies the users the particular item is shared with. Because sharing based on discretionary access is only possible using Internet SIDs, this list MUST contain only Internet SIDs.

```

<xs:element name="ul">

```

```

<xs:complexType>
  <xs:annotation>
    <xs:documentation>user list</xs:documentation>
  </xs:annotation>
  <xs:all>
    <xs:element name="u" minOccurs="1">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="s" type="xs:string" minOccurs="1" maxOccurs="1" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:all>
</xs:complexType>
</xs:element>

```

u.s: The SID of the account sharing the files on the HomeGroup machine. Describes the security identifier for the HomeGroup user on the HomeGroup machine that is sharing the files and folders on the HomeGroup.

2.1.3 Simple Types

The following table summarizes the set of common XML schema simple type definitions defined by this specification.

Simple type	Description
serializedType	A base-64-encoded binary stream

2.1.3.1 serializedType

The serializedType simple type contains a base-64-encoded binary stream.

```

<xs:simpleType name="serializedType">
  <xs:restriction base="xs:string">
    <xs:pattern value="\{ [A-Za-z0-9+/\]*\}" />
  </xs:restriction>
</xs:simpleType>

```

pattern: This value describes base-64 encoding using the following pattern: `[A-Za-z0-9+/\]*`

This field uses non-standard base-64 encoding as specified in section [2.1.4.2](#).

2.1.4 Encryption Rules

2.1.4.1 Data Signing

The Shell Publishing data structure MUST be signed using a HomeGroup public key ([\[MS-HGRP\]](#) section 3.1.4.5) prior to being encoded. To create the signature, the data structure is hashed and the hash value is encrypted using HomeGroup public key. This signature is then appended to the data structure.

2.1.4.2 Data Encoding

This data structure MUST be base-64 encoded after being signed and before being transported in a WSD message. The base-64 encoding used by this data structure is a modification on the standard

encoding specified by [RFC3548](#). The alphabet used is the same, but the encoding algorithm is different (see [2.1.4.2.2](#)).

2.1.4.2.1 Alphabet

The base-64 alphabet used by this data structure is the following:

Value	Encoding	Value	Encoding	Value	Encoding	Value	Encoding
0	A	17	R	34	i	51	z
1	B	18	S	35	j	52	0
2	C	19	T	36	k	53	1
3	D	20	U	37	l	54	2
4	E	21	V	38	m	55	3
5	F	22	W	39	n	56	4
6	G	23	X	40	o	57	5
7	H	24	Y	41	p	58	6
8	I	25	Z	42	q	59	7
9	J	26	a	43	r	60	8
10	K	27	b	44	s	61	9
11	L	28	c	45	t	62	+
12	M	29	d	46	u	63	/
13	N	30	e	47	v		
14	O	31	f	48	w		
15	P	32	g	49	x		
16	Q	33	h	50	y		

2.1.4.2.2 Encoding

The data being encoded is manipulated at the 8-bit chunk (octet) borders. The lowest 6 bits are converted to an appropriate alphabet character. (The value represented by these 6 bits is converted to a corresponding character, shown in the table in section [2.1.4.2.1](#)). The remaining 2 bits are combined with the next octet by making them the lowest 2 bits. And the process is repeated, with each step having 2 more extra bits until 6 bits remain, which are then converted to a character without the use of the next octet. The following diagram illustrates this process:

First Octet								Second Octet								Third Octet									
07	06	05	04	03	02	01	00	17	16	15	14	13	12	11	10	27	26	25	24	23	22	21	20		
		05	04	03	02	01	00																		
		First Encoded Character																							
							17	16	15	14	13	12	11	10	07	06	27	26	25	24	23	22	21	20	

Figure 1: Data encoding at the 8-bit (octet) level

The lowest 6 bits of the second octet are converted to the next character, and the remaining 4 bits are moved to be the lowest 4 bits of the next octet.

First Octet								Second Octet								Third Octet									
						17	16	15	14	13	12	11	10	07	06	27	26	25	24	23	22	21	20		
										13	12	11	10	07	06										
										Second Encoded Character															
												27	26	25	24	23	22	21	20	17	16	15	14		
																		Third Encoded Character							
																		27	26	25	24	23	22		
																		Fourth Encoded Character							

Figure 2: Data encoding of the lowest 6 bits and remaining 4 bits

3 Structure Examples

3.1 Shell Publishing Data Structure Example

This section contains an example of the Shell Publishing data structure. This example is given raw, before the structure is signed and base-64 encoded. Sections [3.2](#) and [3.3](#) contain examples of signing and base-64 encoding for this particular example.

```
<?xml version="1.0" encoding="UTF-8"?>
<pi>
  <usersFilesDescription>
    <o un="nikola" a="nikola" s="S-1-5-21-2555710863-3024264161-1621211007-1001" />
  <il>
    <i>
      <p>\Users\nikola\AppData\Roaming\Microsoft\Windows\Libraries\Music.library-ms</p>
      <sl>MBAAAEAFCAAAAAAADAAAAAAAYkgAADBgAAAAUOEKgxWpcAF2JNOOnVKHQhdSjjzZlyBMtHAAAAAABAAAAA
      AAAAAAAAAAAAYIAAAAHAAAAACAAAAAIAAAAEIAAAAgJAAACAAAAQBAAAAAAAAAAAAGAAwFX010SPxUqtAlQcV
      1UFJ1UA4War9GbhxVQwBHRhRXYcJl1bh1WaudGXNl2Yy92cvZGdcVauR2b3NXXMlmYyFmcpV2cc1Udzl2YuwWaiJXYy1X
      LtNHAD0AAwAAAKFA8BWNbLwHivQNEiw03Z8b578MLAAQrAs7rTuznAQAAAAAAEAAAQMTB1UwEfJ3++RaARpxLAY
      M656sWCAAAGCAAAAA8BAAAGCAAAAUbQaAsGAvBABAEAGATAAUAMEAAAAAAAtAAAAEzUQN1Ok2r3zezqDF55Ehp2pU5qR
      AAAAAAIAAAATAAAAAIAAAATAAAAEzUQN1cDVuCuOUPVI5pxthzqpbRAAAAsAAAAALAAAA8//AAAAAAAAAAAA
      AAsAwBUMXc5War9Gbh1CUDxVVzVmczBQTpNmcyN3bmRHIOVGd39mcrBAACAAUAEDAAAAAolOXwJEA4War9GbhBAA6AA
      CAQAav7rW7oAnatzFcqCAAAWqTDAAGAAAAAIAAAAAAAAAAAAAAAAAAUBQaAsGAvBABAEAGAAgFAIFAxAAAAAAAtzCcCBA
      BBHCEFGdhBAPAgAAEAw7+q1OLwpW7sAnqAAAAc70AAAAIAAAAAAAAAAAAAAAAAAQQAHAwBARAEGA0BQYAAAAWAgUA
      EDAAAAAolOSwJEA1l1bh1WaudGA8ACAQAav7rW7sAnatjEcqCAAAAUtDAAGAAAAAIAAAAAAAAAAAAAAAAAASBwbAEGATB
      QaA4GanBAAAYBAYBQMAAAAAAgW70BnQAQTJNkUPNlfxAAAAACAQAav7rW7sAnatTHcqCAAAQuTDAAGAAAAAIAAAAA
      AAAAAANBQaAMGAYBwbAMHAvBgZAQHAAGAIFAxAAAAAAAtzFcCBAXlmbk92dzBAPAgAAEAw7+q1OLwpW7cBnqAAA
      Ao70AAAAIAAAAAAAAAAAAAAAAAAwVakGAuBAZA8GA3BwcAAAAWAAWAEAAAAAolODyZEAWUSCJVQS5XMAAAQAgAAE
      Aw7+q1OXwpW7MInqAAAAgE/AAAAAAAAAAAAAAAAAAAAAAAAATAkGAIbGcAEGAYBQaAUGAZBAAAGBAQCgMAMtHAAgW7M
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```

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</ul>                </i>                </dil>
</usersFilesDescription>
</pi>

```

3.2 Signed XML Data

The following signature has been created based on the Shell Publishing data structure example in section 3.1. This signature has been created by hashing the data using the HomeGroup public key (see section 2.1.4.1). This signature can be appended to the Shell Publishing data structure example before base-64 encoding in order to create an authentic message.

```

0x0000: 01 00 00 9d 21 49 20 76
0x0008: ff 72 31 7f 31 5f 57 ef-22 ae 08 92 8e 08 29 5d
0x0028: cd 54 ab 8f 7e 9a 42 ea-a4 c1 03 07 41 38 62 77
0x0048: de 33 cb 83 c2 4f eb b2-cb 10 84 02 8b 22 4f d0
0x0068: 74 e2 04 c6 af 3c 23 8a-5d e3 7c c0 5b b1 84 c2
0x0088: 2c 95 67 aa ff 17 08 7a-48 52 0f 30 2b 6c cd 3d
0x00A8: 3a 24 97 67 0a 68 5d b2-8c 3c a9 d6 90 cf 18 3b
0x00C8: 69 c8 58 de 94 57 e8 39-30 98 0a 79 ac 44 85 02
0x00E8: 21 5e 5e cf 96 24 64 27-59 0a 98 cb 88 68 a5 66
0x0108: 14 1e e6 4a 7d ab e0 15-8e 5b 57 08 3d 7f 0c c3
0x0128: f3 d9 dc 68 95 48 8d 5d-e3 1d 42 3b d0 a1 33 ed
0x0148: f0 30 ea 0e 5c de ca 93-a5 c2 fe a5 72 0c c6 3b
0x0168: c6 aa dd 38 99 dd 44 22-f5 e0 d4 df 74 2a f3 4b
0x0188: 32 c5 55 59 c4 a1 a6 52-3f 9f a2 39 24 33 38 c5
0x01A8: 45 3b 9c f1 24 de be af-41 c0 6d 28 0e 5a 75 4c
0x01C8: 4a 64 5d b0 b0 6d d1 d2-39 2f 1c f3 64 f3 0c 3a
0x01E8: df 9f 00 ec 48 37 01 24-f7 a4 9a

```


This section contains a signed, base-64-encoded version of the Shell Publishing data structure example provided in section [3.1](#). The base-64 encoding has been applied to the structure after appending the signature given in section [3.2](#).

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[MS-DPWSRP] - v20151016
Devices Profile for Web Services (DPWS): Shared Resource Publishing Data Structure
Copyright © 2015 Microsoft Corporation
Release: October 16, 2015

0x1020: 88yCS5TDKACIgACIgwzLp5TDKACIgACP
0x1040: vkGb+0gCgACPvU3c1J3cG1GblNHR1N3Y
0x1060: y1Gc012bu5TDKwzLwlmPAEAAA0ZIJBid
0x1080: /LXM/FzXX9uIuigkOiQKd1Mvr+ofaKk6
0x10A0: kG8AHEEOidn3zs8gC/06yuMEEKwii8E0
0x10C0: 0JOBG/KPjoYXjzHwbFLhCzS1np6/Xgge
0x10E0: IJ1DwsCbN3jOkc5ZKgWXyyIPpaNkPjxO
0x1100: phMWeT5VonDMYqQesSUhCEiXe9s1kQ2J
0x1120: ZpAmLjIalaGFeYuS9tK4V44WXhQP/xww
0x1140: znN3oVJSN214dI00QH6MtDPMq7AXer8k
0x1160: lKs/1KHDGvjxq2NOZ2NRiUP4U/Ndqm/S
0x1180: yUcVZRcomK1PfKaOkMDOFX0OcGPJe77r
0x11A0: BBcbo4gW1xkSk1Fsw2W0SnzLcMPZzzgO
0x11C0: f/JAsj0NBQy9kqJ

4 Security

4.1 Security Considerations for Implementers

The Shell Publishing data structure relies on HomeGroup key signing to validate authenticity of the data.

4.2 Index of Security Fields

Security parameter	Section
HomeGroup public key	2.1.4.1

5 Appendix A: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include released service packs.

- Windows 7 operating system
- Windows Home Server 2011 server software
- Windows 8 operating system
- Windows 8.1 operating system
- Windows 10 operating system

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms SHOULD or SHOULD NOT implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term MAY implies that the product does not follow the prescription.

6 Change Tracking

No table of changes is available. The document is either new or has had no changes since its last release.

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