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**Revision Summary**

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<th>Date</th>
<th>Revision History</th>
<th>Revision Class</th>
<th>Comments</th>
</tr>
</thead>
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<td>01/20/2012</td>
<td>0.1</td>
<td>New</td>
<td>Released new document.</td>
</tr>
<tr>
<td>04/11/2012</td>
<td>0.1</td>
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<td>No changes to the meaning, language, or formatting of the technical content.</td>
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<td>No change</td>
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</tr>
</tbody>
</table>
# Table of Contents

## 1 Introduction

1.1 Glossary ............................................................................................................... 5

1.2 References ............................................................................................................ 5

1.2.1 Normative References ...................................................................................... 5

1.2.2 Informative References .................................................................................... 6

1.3 Overview .............................................................................................................. 6

1.4 Relationship to Other Protocols .......................................................................... 6

1.5 Prerequisites/Preconditions ................................................................................. 7

1.6 Applicability Statement ....................................................................................... 7

1.7 Versioning and Capability Negotiation ............................................................... 7

1.8 Vendor-Extensible Fields ..................................................................................... 7

1.9 Standards Assignments ....................................................................................... 7

## 2 Messages

2.1 Transport .............................................................................................................. 8

2.2 Common Data Types ............................................................................................ 8

2.2.1 Subscription Settings Property Set XML ........................................................... 8

2.2.1.1 nullEntry ...................................................................................................... 8

2.2.1.2 stringEntry ................................................................................................. 8

2.2.1.3 intEntry ...................................................................................................... 9

2.2.1.4 longEntry .................................................................................................. 9

2.2.1.5 booleanEntry ........................................................................................... 10

2.2.1.6 guidEntry .................................................................................................. 10

2.2.1.7 dateTimeEntry ............................................................................................ 10

2.2.2 Simple Data Types and Enumerations .......................................................... 11

2.2.2.1 Subscription Settings Type Identifiers ....................................................... 11

2.2.3 Bit Fields and Flag Structures ........................................................................ 11

2.2.3.1 DateTime Bit Field .................................................................................... 11

2.2.4 Binary Structures ............................................................................................ 11

2.2.5 Result Sets ...................................................................................................... 11

2.2.5.1 proc_GetPropertySet.ResultSet0 ............................................................... 11

2.2.5.2 proc_GetPropertySetIdsByType.ResultSet0 .............................................. 12

2.2.5.3 proc_GetSiteSubscriptions.ResultSet0 .................................................... 12

2.2.5.4 proc_GetSubscriptionPropertySetId.ResultSet0 .................................. 12

2.2.5.5 proc_SetSubscriptionMapping.ResultSet0 ............................................. 12

2.2.5.6 proc_SetSubscriptionPropertySet.ResultSet0 ........................................ 12

2.2.5.7 proc_GetSubscriptionMetadata.ResultSet0 ............................................. 13

2.2.5.8 proc_GetSubscriptionNextAppSiteDomainId.ResultSet0 ........................... 13

2.2.6 Tables and Views ............................................................................................ 13

2.2.6.1 PropertySet ............................................................................................... 13

2.2.6.2 Mapping .................................................................................................... 14

2.2.7 XML Structures ............................................................................................... 14

2.2.7.1 Namespaces ............................................................................................. 14

2.2.7.2 Simple Types ............................................................................................ 14

2.2.7.3 Complex Types ........................................................................................ 14

2.2.7.4 Elements ................................................................................................... 14

2.2.7.5 Attributes ................................................................................................ 14

2.2.7.6 Groups ...................................................................................................... 14

2.2.7.7 Attribute Groups ....................................................................................... 15

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3 Protocol Details

3.1 Common Details

3.2 Server Details

3.2.1 Abstract Data Model

3.2.2 Timers

3.2.3 Initialization

3.2.4 Higher-Layer Triggered Events

3.2.5 Message Processing Events and Sequencing Rules

3.2.5.1 proc_DropPropertySet

3.2.5.2 proc_DropSubscriptionMapping

3.2.5.3 proc_GetPropertySet

3.2.5.4 proc_GetPropertySetIdsByType

3.2.5.5 proc_GetSiteSubscriptions

3.2.5.6 proc_GetSubscriptionPropertySet

3.2.5.7 proc_GetSubscriptionPropertySetId

3.2.5.8 proc_PutPropertySet

3.2.5.9 proc_SetSubscriptionMapping

3.2.5.10 proc_SetSubscriptionPropertySet

3.2.5.11 proc_CreateSubscriptionMetadata

3.2.5.12 proc_GetSubscriptionMetadata

3.2.5.13 proc_GetSubscriptionNextAppSiteDomainId

3.2.6 Timer Events

3.2.7 Other Local Events

3.3 Client Details

3.3.1 Abstract Data Model

3.3.2 Timers

3.3.3 Initialization

3.3.4 Higher-Layer Triggered Events

3.3.5 Message Processing Events and Sequencing Rules

3.3.6 Timer Events

3.3.7 Other Local Events

4 Protocol Examples

4.1 Manage the Feature Set of a Site Subscription

4.1.1 Create a Feature Set

4.1.2 Assign a Feature Set to a Site Subscription

4.1.3 Update the Feature Definition Identifiers of a Feature Set

4.1.4 Fetch All Existing Feature Sets

4.1.5 Fetch the Feature Set Assigned to a Site Subscription

4.1.6 Delete a Feature Set

5 Security

5.1 Security Considerations for Implementers

5.2 Index of Security Parameters

6 Appendix A: Product Behavior

7 Change Tracking

8 Index
1 Introduction

This document specifies the SharePoint Subscription Settings Stored Procedures Protocol. This protocol allows for a set of configuration data to be shared among a set of site collections. This protocol is typically needed for hosting scenarios.

Sections 1.8, 2, and 3 of this specification are normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in RFC 2119. Sections 1.5 and 1.9 are also normative but cannot contain those terms. All other sections and examples in this specification are informative.

1.1 Glossary

The following terms are defined in [MS-GLOS]:

GUID
property set

The following terms are defined in [MS-OFCGLOS]:

app site domain identifier
request identifier
root element
site collection
site subscription
stored procedure
Structured Query Language (SQL)
version stamp
XML fragment
XML namespace
XML namespace prefix
XML schema

The following terms are specific to this document:

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

1.2 References

References to Microsoft Open Specifications documentation do not include a publishing year because links are to the latest version of the technical documents, which are updated frequently. References to other documents include a publishing year when one is available.

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. Please check the archive site, http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624, as an additional source.
In enterprise and hosting scenarios a number of site collections need to use a shared set of configuration data. This protocol allows for the potential of some configuration data for this group of site collections to be delegated to additional administrators.

To facilitate these scenarios this protocol has the ability to set, remove and read property sets for a particular set of site collections.

1.4 Relationship to Other Protocols

This protocol uses T-SQL as shown in the following layering diagram:
1.5 Prerequisites/Preconditions

This protocol operates between a protocol client and a protocol server on which the back-end databases are stored. The protocol client is expected to know the location and connection information for the databases.

This protocol requires that the protocol client has appropriate permissions to call the stored procedures in the back-end databases.

1.6 Applicability Statement

None.

1.7 Versioning and Capability Negotiation

None.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.
2 Messages

2.1 Transport

[MS-TDS] is the transport protocol used to call the stored procedures, query SQL views or SQL tables and return result sets and return codes.

2.2 Common Data Types

The following sections define the common data types that are used in this protocol.

2.2.1 Subscription Settings Property Set XML

A Unicode string which MUST conform to the following XML schema (2).

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema id="object" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="entries">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="entry" minOccurs="0" maxOccurs="unbounded" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

**entries:** The root element of the XML fragment.

**entry:** A name/value pair. The semantic meaning of the pair is defined by sub-protocols which implement this protocol.

Each entry element MUST conform to one of the XML schemas (2) described in the following sub-sections.

2.2.1.1 nullEntry

An entry with no value.

```xml
<xs:complexType name="nullEntry">
  <xs:attribute name="name" type="xs:string" use="required" />
  <xs:attribute name="nil" type="xs:string" use="required" fixed="true" />
</xs:complexType>
```

**name:** The name of the entry.

**nil:** The attribute that indicates an entry with no value.

2.2.1.2 stringEntry

An entry that specifies a string value.

```xml
<xs:complexType name="stringEntry">
  <xs:simpleContent>
    <xs:extension base="xs:string">
      <xs:extension base="xs:string">
```

Preliminary
name: The name of the entry.

type: The type of the entry.

If the type identifier of a property set is "47EF919C-588D-4cfc-A552-762F746A5127", the value of this field MUST be a semi-colon delimited list of GUIDs or an empty string.

2.2.1.3 intEntry

An entry that specifies an integer value.

```xml
<xs:complexType name="intEntry">
    <xs:simpleContent>
        <xs:extension base="xs:int">
            <xs:attribute name="name" type="xs:string" use="required" />
            <xs:attribute name="type" type="xs:string" use="required" fixed="int" />
        </xs:extension>
    </xs:simpleContent>
</xs:complexType>
```

name: The name of the entry.

type: The type of the entry.

2.2.1.4 longEntry

An entry that specifies a long value.

```xml
<xs:complexType name="longEntry">
    <xs:simpleContent>
        <xs:extension base="xs:long">
            <xs:attribute name="name" type="xs:string" use="required" />
            <xs:attribute name="type" type="xs:string" use="required" fixed="long" />
        </xs:extension>
    </xs:simpleContent>
</xs:complexType>
```

name: The name of the entry.

type: The type of the entry.

2.2.1.5 booleanEntry

An entry that specifies a Boolean value.

```xml
<xs:complexType name="booleanEntry">
    <xs:simpleContent>
        <xs:extension base="xs:boolean">
        </xs:extension>
    </xs:simpleContent>
</xs:complexType>
```
name: The name of the entry.
type: The type of the entry.

2.2.1.6 guidEntry
An entry that specifies a GUID value.

<xs:simpleType name="guid">
  <xs:restriction base="xs:string">
    <xs:pattern value="\{[0-9A-F]{8}-[0-9A-F]{4}-[0-9A-F]{4}-[0-9A-F]{4}-[0-9A-F]{12}\}"/>
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="guidEntry">
  <xs:simpleContent>
    <xs:extension base="guid">
      <xs:attribute name="name" type="xs:string" use="required" />
      <xs:attribute name="type" type="xs:string" use="required" fixed="guid" />
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>

name: The name of the entry.
type: The type of the entry.

2.2.1.7 dateTimeEntry
An entry that specifies a DateTime value.

<xs:complexType name="longEntry">
  <xs:simpleContent>
    <xs:extension base="xs:long">
      <xs:attribute name="name" type="xs:string" use="required" />
      <xs:attribute name="type" type="xs:string" use="required" fixed="sp-dateTime" />
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>

name: The name of the entry.
type: The type of the entry.

The value of this field MUST conform to the DateTime bit field as specified in section 2.2.3.1.
2.2.2 Simple Data Types and Enumerations

The following section defines the enumeration used in this protocol.

2.2.2.1 Subscription Settings Type Identifiers

The type identifier of a property set MUST be one of the values

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSC46399-6D0-4489-8CD-AA36B8ACCEFB</td>
<td>Properties</td>
</tr>
<tr>
<td>83E6C4CB-8E9-4882-AF00-421F86517F2</td>
<td>Administrative Properties</td>
</tr>
<tr>
<td>47EF919C-588D-4cf-A552-762F746A5127</td>
<td>Feature Set</td>
</tr>
</tbody>
</table>

2.2.3 Bit Fields and Flag Structures

The following bit field is used by this protocol.

2.2.3.1 DateTime Bit Field

The **DateTime** bit field is a 64-bit value that MUST conform to the following model.

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 2 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 3 | 0 | 1 |
| Kind | Ticks |
| ... |

**Kind (2 bits):** The type of the **DateTime**. This value MUST be listed in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x1</td>
<td>Coordinated Universal Time (UTC)</td>
</tr>
<tr>
<td>0x2</td>
<td>Local Time</td>
</tr>
</tbody>
</table>

**Ticks (62 bits):** The number of 100 nanosecond intervals that have elapsed between 12:00:00 midnight on January 1, 0001 and the date and time specified in Coordinated Universal Time (UTC).

2.2.4 Binary Structures

None.

2.2.5 Result Sets

2.2.5.1 procGetPropertySet.ResultSet0

This result set represents a property set stored by the protocol server.
Version bigint,
Xml nvarchar(max),
PropertySetId uniqueidentifier,

**Version:** The version stamp of the property set.

**Xml:** The data associated with the property set. This value MUST conform to the Subscription Settings Property Set XML schema as specified in section 2.2.1.

**PropertySetId:** The unique identifier of the property set.

### 2.2.5.2 proc_GetPropertySetIdsByType.ResultSet0

This result set represents a set of unique identifiers that correspond to property sets stored by the protocol server. All identifiers in the result set MUST be unique, and MUST correspond to a different property set. Each property set MUST have the same type identifier.

PropertySetId uniqueidentifier,

**PropertySetId:** The unique identifier of the property set.

### 2.2.5.3 proc_GetSiteSubscriptions.ResultSet0

This result set contains a set of unique identifiers that represent site subscriptions. Each site subscription that appears in this result set MUST be unique.

SubscriptionId uniqueidentifier,

**SubscriptionId:** The unique identifier of the site subscription.

### 2.2.5.4 proc_GetSubscriptionPropertySetId.ResultSet0

This result set contains the unique identifier of the property set contained in the protocol server that matches the site subscription and type identifier specified when calling proc_GetSubscriptionPropertySetId. If the protocol server contains a property set matching the input parameters, this result set MUST contain one result. Otherwise, this result set MUST contain zero results.

PropertySetId uniqueidentifier,

**PropertySetId:** The unique identifier of the property set.

### 2.2.5.5 proc_SetSubscriptionMapping.ResultSet0

This result set reports information about the existence of a mapping between the specified site subscription and a property set of the specified type prior to execution of proc_SetSubscriptionMapping. If a pre-existing mapping was found, this result set MUST contain one result. If a pre-existing mapping was not found, this result set MUST contain zero results.
PropertySetId uniqueidentifier,

**PropertySetId**: The unique identifier of the property set.

### 2.2.5.6 proc_SetSubscriptionPropertySet.ResultSet0

This result set contains the version stamp of a property set.

**Version bigint,**

**Version**: The version stamp of an existing property set contained in the protocol server.

### 2.2.5.7 proc_GetSubscriptionMetadata.ResultSet0

This result set returns the site subscription name.

**Name nvarchar(48)**

**Name**: The site subscription name.

### 2.2.5.8 proc_GetSubscriptionNextAppSiteDomainId.ResultSet0

This result set returns a new **app site domain identifier** for a site subscription.

**NextAppSiteDomainId varchar(6)**

**NextAppSiteDomainId**: The new app site domain identifier.

### 2.2.6 Tables and Views

#### 2.2.6.1 PropertySet

The **PropertySet** table stores a list of property sets along with supporting metadata for each property set.

```
TypeId uniqueidentifier NOT NULL,
PropertySetId uniqueidentifier NOT NULL,
Version bigint NOT NULL,
Xml xml NULL,
```

**TypeId**: The type identifier of the property set. This value MUST exist in the list of valid Subscription Settings Type Identifiers as defined in section **2.2.2.1**.

**PropertySetId**: The unique identifier of the property set.

**Version**: The version stamp of the property set.

**Xml**: The data associated with the property set. This value MUST conform to the Subscription Settings Property Set XML schema as specified in section **2.2.1**.
2.2.6.2 Mapping

The Mapping table stores a list of mappings. Each mapping MUST contain the identifier of a site subscription, and the unique identifier and type identifier of a property set stored in the PropertySet table.

```
SubscriptionId uniqueidentifier NOT NULL,
TypeId uniqueidentifier NOT NULL,
PropertySetId uniqueidentifier NOT NULL,
```

**SubscriptionId**: The unique identifier of the site subscription.

**TypeId**: The type identifier of the property set. This value MUST exist in the list of valid Subscription Settings Type Identifiers as defined in section 2.2.2.1.

**PropertySetId**: The unique identifier of the property set.

2.2.7 XML Structures

None.

2.2.7.1 Namespaces

This protocol specifies and references XML namespaces using the mechanisms specified in [XMLNS]. Although this document associates a XML namespace prefix for each XML namespace that is used, the choice of any particular XML namespace prefix is implementation-specific and not significant for interoperability.

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Namespace URI</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>xs</td>
<td><a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a></td>
<td>[XMLSCHEMA1], [XMLSCHEMA2]</td>
</tr>
</tbody>
</table>

2.2.7.2 Simple Types

None.

2.2.7.3 Complex Types

None.

2.2.7.4 Elements

None.

2.2.7.5 Attributes

None.

2.2.7.6 Groups

None.
2.2.7.7 Attribute Groups

None.
3 Protocol Details

3.1 Common Details

None.

3.2 Server Details

The protocol server responds only to stored procedure calls from the protocol client. It returns result sets and return codes and never initiates communication with other endpoints of this protocol.

3.2.1 Abstract Data Model

This section describes a conceptual model of possible data organization that an implementation maintains to participate in this protocol. The described organization is provided to facilitate the explanation of how the protocol behaves. This document does not mandate that implementations adhere to this model as long as their external behavior is consistent with that described in this document.

The protocol server maintains a list of property sets and their mappings to site subscription identifiers. The protocol server adds, changes, and deletes property set objects and their mappings from this list in response to messages from the protocol client.

There are three types of property sets: Properties, Administrative Properties, and Feature Set. The Properties type is used to store a collection of settings, the Administrative Properties stores values specifically for the administrator of the system, and a Feature Set stores a list of identifiers that can be used to filter end user functionality. Each site subscription identifier can potentially be associated with one of each type of property set.

Every property set has exactly one version stamp, type identifier, and property set identifier. A property set is only uniquely identified by a combination of its property set identifier and type identifier.

3.2.2 Timers

None.

3.2.3 Initialization

None.

3.2.4 Higher-Layer Triggered Events

None.

3.2.5 Message Processing Events and Sequencing Rules

3.2.5.1 proc_DropPropertySet

This proc_DropPropertySet stored procedure deletes a property set and all associated mappings to the property set from the protocol server. The T-SQL syntax for the stored procedure is as follows:

```sql
PROCEDURE proc_DropPropertySet { }
```
@PropertySetId uniqueidentifier,
@TypeId uniqueidentifier,
@Version bigint,
@CorrelationId uniqueidentifier = null);

@PropertySetId: The unique identifier of the property set. This value MUST NOT be NULL or empty.

@TypeId: The type identifier of the property set. This value MUST exist in the list of valid Subscription Settings Type Identifiers as defined in section 2.2.2.1.

@Version: The version stamp of the property set. This value MUST NOT be zero and MUST be non-negative.

@CorrelationId: The optional request identifier for the current request.

Return Values: An integer which MUST be in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>This value MUST be returned for all error conditions other than those specified in this table. If this value is returned, the protocol server MUST NOT delete the property set or any associated mappings.</td>
</tr>
<tr>
<td>2</td>
<td>This value MUST be returned if the value of @Version does not match the version stamp of the property set stored by the protocol server. If this value is returned, the protocol server MUST NOT delete the property set or any associated mappings.</td>
</tr>
<tr>
<td>0</td>
<td>This value MUST be returned when the property set and associated mappings are successfully deleted by the protocol server.</td>
</tr>
<tr>
<td>3</td>
<td>This value MUST be returned when the property set and associated mappings are already not present on the protocol server.</td>
</tr>
</tbody>
</table>

Result Sets: MUST NOT return any result sets.

3.2.5.2 proc_DropSubscriptionMapping

The proc_DropSubscriptionMapping stored procedure deletes a mapping between a site subscription and a property set of a specific type. The T-SQL syntax for the stored procedure is as follows:

```
PROCEDURE proc_DropSubscriptionMapping ( 
    @SubscriptionId uniqueidentifier,
    @TypeId uniqueidentifier,
    @CorrelationId uniqueidentifier = null);
```

@SubscriptionId: The unique identifier of the site subscription. This value MUST NOT be NULL or empty.

@TypeId: The type identifier of the property set. This value MUST exist in the list of valid Subscription Settings Type Identifiers as defined in section 2.2.2.1.

@CorrelationId: The optional request identifier for the current request.
Return Values: An integer which MUST be in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>This value MUST be returned for all error conditions encountered by the protocol server. If this value is returned, the protocol server MUST NOT delete any mappings.</td>
</tr>
<tr>
<td>0</td>
<td>This value MUST be returned when the mapping of the specified type and to the specified site subscription is deleted or did not exist.</td>
</tr>
</tbody>
</table>

Result Sets: MUST NOT return any result sets.

3.2.5.3 proc_GetPropertySet

The proc_GetPropertySet stored procedure retrieves the property set represented by the specified unique identifier and type identifier. If the protocol server contains a matching property set, the result set MUST contain one result. If the protocol server does not contain a matching property set, the result set MUST contain zero results. The T-SQL syntax for the stored procedure is as follows:

```sql
PROCEDURE proc_GetPropertySet (  @PropertySetId uniqueidentifier  ,@TypeId uniqueidentifier  ,@CorrelationId uniqueidentifier = null ) ;
```

@PropertySetId: The unique identifier of the property set. This value MUST NOT be NULL or empty.

@TypeId: The type identifier of the property set. This value MUST exist in the list of valid Subscription Settings Type Identifiers as defined in section 2.2.2.1.

@CorrelationId: The optional request identifier for the current request.

Return Values: An integer which MUST be in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>This value MUST be returned for all error conditions.</td>
</tr>
<tr>
<td>0</td>
<td>This value MUST be returned when the operation completes successfully, regardless of whether or not the result set contains any results.</td>
</tr>
</tbody>
</table>

Result Sets:

This stored procedure MUST return a proc_GetPropertySet.ResultSet0

3.2.5.4 proc_GetPropertySetIdsByType

The proc_GetPropertySetIdsByType stored procedure retrieves the set of unique identifiers that represent property sets of a specific type stored by the protocol server. The T-SQL syntax for the stored procedure is as follows:

```sql
PROCEDURE proc_GetPropertySetIdsByType (  @TypeId uniqueidentifier  ,@CorrelationId uniqueidentifier = null ) ;
```
@TypeId: The type identifier of the property set. This value MUST exist in the list of valid Subscription Settings Type Identifiers as defined in section 2.2.2.1.

@CorrelationId: The optional request identifier for the current request.

Return Values: An integer which MUST be in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>This value MUST be returned for all error conditions.</td>
</tr>
<tr>
<td>0</td>
<td>This value MUST be returned if the operation completes successfully.</td>
</tr>
</tbody>
</table>

Result Sets:
This stored procedure MUST return a proc_GetPropertySetIdsByType.ResultSet0

3.2.5.5 proc_GetSiteSubscriptions

The proc_GetSiteSubscriptions stored procedure retrieves a list of site subscriptions from the protocol server. The result set MUST contain one result for each unique site subscription that has one or more mappings to property sets stored by the protocol server. The T-SQL syntax for the stored procedure is as follows:

```
PROCEDURE proc_GetSiteSubscriptions (
    @CorrelationId uniqueidentifier = null
);
```

@CorrelationId: The optional request identifier for the current request.

Return Values: An integer which MUST be in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>This value MUST be returned for all error conditions.</td>
</tr>
<tr>
<td>0</td>
<td>This value MUST be returned if the operation completes successfully.</td>
</tr>
</tbody>
</table>

Result Sets:
This stored procedure MUST return a proc_GetSiteSubscriptions.ResultSet0

3.2.5.6 proc_GetSubscriptionPropertySet

The proc_GetSubscriptionPropertySet stored procedure retrieves a single property set from the protocol server. The property set MUST match the type specified. The protocol server MUST contain a mapping between the specified site subscription and the property set. If these constraints cannot be met, then the stored procedure MUST return an empty result set. The T-SQL syntax for the stored procedure is as follows:

```
PROCEDURE proc_GetSubscriptionPropertySet (
    @SubscriptionId uniqueidentifier
);
```
@SubscriptionId: The unique identifier of the site subscription. This value MUST NOT be NULL or empty.

@TypeId: The type identifier of the property set. This value MUST exist in the list of valid Subscription Settings Type Identifiers as defined in section 2.2.2.1.

@CorrelationId: The optional request identifier for the current request.

Return Values: An integer which MUST be in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>This value MUST be returned for all error conditions.</td>
</tr>
<tr>
<td>0</td>
<td>This value MUST be returned if the operation completes successfully, regardless of whether or not the result set contains any results.</td>
</tr>
</tbody>
</table>

Result Sets: MUST NOT return any result sets.

3.2.5.7 proc_GetSubscriptionPropertySetId

The proc_GetSubscriptionPropertySetId stored procedure retrieves the unique identifier of a single property set from the protocol server. The property set MUST match the type specified. The protocol server MUST contain a mapping between the specified site subscription and the property set. If these constraints cannot be met, then the stored procedure MUST return an empty result set. The T-SQL syntax for the stored procedure is as follows:

```sql
PROCEDURE proc_GetSubscriptionPropertySetId (  
    @SubscriptionId uniqueidentifier  
,
    @TypeId uniqueidentifier  
,
    @CorrelationId uniqueidentifier = null
 );
```

@SubscriptionId: The unique identifier of the site subscription. This value MUST NOT be NULL or empty.

@TypeId: The type identifier of the property set. This value MUST exist in the list of valid Subscription Settings Type Identifiers as defined in section 2.2.2.1.

@CorrelationId: The optional request identifier for the current request.

Return Values: An integer which MUST be in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>This value MUST be returned for all error conditions.</td>
</tr>
<tr>
<td>0</td>
<td>This value MUST be returned if the operation completes successfully, regardless of whether or not the result set contains any results.</td>
</tr>
</tbody>
</table>

Result Sets:
3.2.5.8 proc_PutPropertySet

The proc_PutPropertySet stored procedure creates a new property set or updates an existing property set on the protocol server. If the unique identifier specified in @PropertySetId and the type identifier specified in @TypeId reference a property set stored by the protocol server, then the protocol server MUST update the property set. If the unique identifier specified in @PropertySetId and the type identifier specified in @TypeId do not reference a property set stored by the protocol server, then the protocol server MUST create a new property set. The T-SQL syntax for the stored procedure is as follows:

```
PROCEDURE proc_PutPropertySet (
    @PropertySetId uniqueidentifier,
    @TypeId uniqueidentifier,
    @Version bigint,
    @Xml xml,
    @NewVersion bigint OUTPUT,
    @CorrelationId uniqueidentifier = null
);
```

@PropertySetId: The unique identifier of the property set. This value MUST NOT be NULL or empty.

@TypeId: The type identifier of the property set. This value MUST exist in the list of valid Subscription Settings Type Identifiers as defined in section 2.2.2.1.

@Version: The version stamp of the property set.

@Xml: The new data associated with the property set. The value MUST conform to the Subscription Settings Property Set XML schema as specified in section 2.2.1.

@NewVersion: The version stamp of the property set after it has been created or updated.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>This value MUST be returned as the value of @NewVersion if the stored procedure is creating a new property set on the protocol server.</td>
</tr>
<tr>
<td>PropertySet.Version</td>
<td>This value MUST be returned as the value of @NewVersion if the stored procedure is updating an existing property set on the protocol server. The value returned MUST be the value of @Version incremented by one.</td>
</tr>
</tbody>
</table>

@CorrelationId: The optional request identifier for the current request.

Return Values: An integer which MUST be in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>This value MUST be returned when the value of @Version is not NULL, and @PropertySetId and @TypeId refer to a non-existent property set on the protocol server. If this value is returned, this stored procedure MUST NOT make any changes to the protocol server.</td>
</tr>
<tr>
<td>2</td>
<td>This value MUST be returned if the protocol server encounters an error storing a new property set. If this value is returned, this stored procedure MUST NOT make any changes to the protocol server.</td>
</tr>
</tbody>
</table>
### Value | Description
--- | ---
3 | This value MUST be returned when the protocol server attempts to update an existing property set, but the value of `@Version` is NULL or does not match the version stamp of the existing property set stored by the protocol server. If this value is returned, this stored procedure MUST NOT make any changes to the protocol server.

4 | This value MUST be returned if the protocol server encounters an error updating an existing property set. If this value is returned, this stored procedure MUST NOT make any changes to the protocol server.

0 | This value MUST be returned if the operation completes successfully.

**Result Sets:** MUST NOT return any result sets.

### 3.2.5.9 proc_SetSubscriptionMapping

The `proc_SetSubscriptionMapping` stored procedure creates or updates a mapping between a site subscription and a property set. If no mapping exists, then this stored procedure MUST create a new one. If a mapping does exist, then this stored procedure must overwrite it. The T-SQL syntax for the stored procedure is as follows:

```sql
PROCEDURE proc_SetSubscriptionMapping (  @SubscriptionId uniqueidentifier  ,@TypeId uniqueidentifier  ,@PropertySetId uniqueidentifier  ,@CorrelationId uniqueidentifier = null );
```

**@SubscriptionId:** The unique identifier of the site subscription. This value MUST NOT be NULL or empty.

**@TypeId:** The type identifier of the property set. This value MUST exist in the list of valid Subscription Settings Type Identifiers as defined in section 2.2.2.1.

**@PropertySetId:** The unique identifier of the property set. This value MUST NOT be NULL or empty.

**@CorrelationId:** The optional request identifier for the current request.

**Return Values:** An integer which MUST be in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>This value MUST be returned if the protocol server encounters an error when attempting to create a new mapping between the specified site subscription and the specified property set. If this value is returned, this stored procedure MUST NOT make any changes to the protocol server.</td>
</tr>
<tr>
<td>2</td>
<td>This value MUST be returned if the protocol server encounters an error when attempting to update the existing mapping between the specified site subscription and a property set of the specified type. If this value is returned, this stored procedure MUST NOT make any changes to the protocol server.</td>
</tr>
<tr>
<td>0</td>
<td>This value MUST be returned if the operation completes successfully.</td>
</tr>
</tbody>
</table>

**Result Sets:**
This stored procedure MUST return a `proc_SetSubscriptionMapping.ResultSet0`.

### 3.2.5.10 proc_SetSubscriptionPropertySet

The `proc_SetSubscriptionPropertySet` stored procedure creates a new property set and a new mapping between the property set and a site subscription. The T-SQL syntax for the stored procedure is as follows:

```sql
PROCEDURE proc_SetSubscriptionPropertySet (  
    @SubscriptionId uniqueidentifier,  
    @TypeId uniqueidentifier,  
    @PropertySetId uniqueidentifier,  
    @Xml xml,  
    @NewVersion bigint OUTPUT,  
    @CorrelationId uniqueidentifier = null );
```

@**SubscriptionId**: The unique identifier of the site subscription. This value MUST NOT be NULL or empty.

@**TypeId**: The type identifier of the property set. This value MUST exist in the list of valid Subscription Settings Type Identifiers as defined in section 2.2.2.1.

@**PropertySetId**: The unique identifier of the property set. This value MUST NOT be NULL or empty.

@**Xml**: The new data associated with the property set. This value MUST conform to the Subscription Settings Property Set XML schema as specified in section 2.2.1.

@**NewVersion**: The version stamp of the property set after it has been created.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>This value MUST always be returned.</td>
</tr>
</tbody>
</table>

@**CorrelationId**: The optional request identifier for the current request.

**Return Values**: An integer which MUST be in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>This value MUST be returned if the protocol server encounters an error while checking for an existing property set with the unique identifier specified in <code>@PropertySetId</code> and type identifier specified in <code>@TypeId</code>. If this value is returned, this stored procedure MUST NOT make any changes to the protocol server.</td>
</tr>
<tr>
<td>2</td>
<td>This value MUST be returned if the protocol server contains an existing property set with the unique identifier specified in <code>@PropertySetId</code> and type identifier specified in <code>@TypeId</code>. If this value is returned, this stored procedure MUST NOT make any changes to the protocol server.</td>
</tr>
<tr>
<td>3</td>
<td>This value MUST be returned if the protocol server encounters an error while creating the property set. If this value is returned, this stored procedure MUST NOT make any changes to the protocol server.</td>
</tr>
</tbody>
</table>
| 4     | This value MUST be returned if the protocol server encounters an error while checking for an existing mapping between the site subscription specified in `@SubscriptionId` and a property set of the type specified in `@TypeId`. If this value is returned, this stored procedure MUST NOT
### Value Description

- **Make any changes to the protocol server.**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>This value MUST be returned if the protocol server contains an existing mapping between the site subscription specified in <code>@SubscriptionId</code> and a property set of the type specified in <code>@TypeId</code>. If this value is returned, this stored procedure MUST NOT make any changes to the protocol server.</td>
</tr>
<tr>
<td>6</td>
<td>This value MUST be returned if the protocol server encounters an error while creating a mapping between the site subscription specified in <code>@SubscriptionId</code> and the new property set. If this value is returned, this stored procedure MUST NOT make any changes to the protocol server.</td>
</tr>
<tr>
<td>0</td>
<td>This value MUST be returned if the new property set is successfully created, and a new mapping is established between the site subscription specified in <code>@SubscriptionId</code> and the property set.</td>
</tr>
</tbody>
</table>

**Result Sets:**

This stored procedure MUST return a `proc_SetSubscriptionPropertySet.ResultSet0`.

#### 3.2.5.11 proc_CreateSubscriptionMetadata

The `proc_CreateSubscriptionMetadata` stored procedure creates a site subscription name and random app site domain identifier for the site subscription. The T-SQL syntax for the stored procedure is as follows:

```sql
PROCEDURE proc_CreateSubscriptionMetadata (
    @SubscriptionId uniqueidentifier
    ,@Name nvarchar(48)
);```

- **@SubscriptionId**: The unique identifier of the site subscription. This value MUST NOT be NULL or empty.
- **@Name**: The site subscription name for the site subscription.

**Return Values:** An integer which MUST be in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>The operation completed successfully.</td>
</tr>
<tr>
<td>80</td>
<td>This value MUST be returned if the protocol server encounters an error. If this value is returned, this stored procedure MUST NOT make any changes to the protocol server. This value is returned when a different site subscription exists that is already using a site subscription name that matches the one specified by the <code>@Name</code> parameter.</td>
</tr>
</tbody>
</table>

**Result Sets:**

This stored procedure MUST NOT return a result set.

#### 3.2.5.12 proc_GetSubscriptionMetadata

The `proc_GetSubscriptionMetadata` stored procedure returns the site subscription name for the site subscription. The T-SQL syntax for the stored procedure is as follows:
PROCEDURE proc_GetSubscriptionMetadata (  
@SubscriptionId uniqueidentifier  
);  

@SubscriptionId: The unique identifier of the site subscription. This value MUST NOT be NULL or empty.

Return Values: An integer which MUST be in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>The operation completed successfully.</td>
</tr>
<tr>
<td>2</td>
<td>This value MUST be returned if the protocol server encounters an error. If this value is returned, this stored procedure MUST NOT make any changes to the protocol server. This value is returned when a site subscription specified by the @SubscriptionId parameter does not exist.</td>
</tr>
</tbody>
</table>

Result Sets:
This stored procedure MUST return the result set proc_GetSubscriptionNextAppSiteDomainId.ResultSet0, defined in section 2.2.5.7.

3.2.5.13 proc_GetSubscriptionNextAppSiteDomainId
The proc_GetSubscriptionNextAppSiteDomainId stored procedure returns a new app site domain identifier. The T-SQL syntax for the stored procedure is as follows:

PROCEDURE proc_GetSubscriptionNextAppSiteDomainId (  
@SubscriptionId uniqueidentifier  
);  

@SubscriptionId: The unique identifier of the site subscription. This value MUST NOT be NULL or empty.

Return Values: An integer which MUST be in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>The operation completed successfully.</td>
</tr>
<tr>
<td>2</td>
<td>This value MUST be returned if the protocol server encounters an error. If this value is returned, this stored procedure MUST NOT make any changes to the protocol server. This value is returned when a site subscription specified by the @SubscriptionId parameter does not exist.</td>
</tr>
</tbody>
</table>

Result Sets:
This stored procedure MUST return the result set proc_GetSubscriptionNextAppSiteDomainId.ResultSet0, defined in section 2.2.5.8, if the return value is 0. This stored procedure MUST NOT return a result set if the return value is not 0.

3.2.6 Timer Events
None.

[MS-SPSETSP2] — v20120630
SharePoint Subscription Settings Stored Procedures Version 2 Protocol Specification

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Release: July 16, 2012
3.2.7 Other Local Events
None.

3.3 Client Details
None.

3.3.1 Abstract Data Model
None.

3.3.2 Timers
None.

3.3.3 Initialization
None.

3.3.4 Higher-Layer Triggered Events
None.

3.3.5 Message Processing Events and Sequencing Rules
None.

3.3.6 Timer Events
None.

3.3.7 Other Local Events
None.
4 Protocol Examples

4.1 Manage the Feature Set of a Site Subscription

These examples illustrate the sequence of requests made and responses returned between the protocol client and protocol server during execution of feature set (a group of feature definition identifiers) management operations.

4.1.1 Create a Feature Set

To create a new feature set with a specific list of feature definition identifiers, the protocol client creates a property set, setting the type identifier to the value that denotes a feature set.

The protocol client creates a new property set of type feature set by calling the proc_PutPropertySet. It passes a unique identifier as the property set identifier (for example: "9C7C959D-DAF3-4054-BBF7-F2CFA81D20A5"), the type identifier ("47EF919C-588D-4CFC-A552-762F746A5127"), NULL as the version, an XML string that represents the feature definition identifiers (for example: `<entries><entry name="FeatureIds" type="string"/></entries>`), an out variable to collect the new version number, and a request identifier of the current request (for example: "00000000-0000-0000-0000-000000000000").

The protocol client calls proc_PutPropertySet as follows:

```sql
declare @p4 xml
set @p4=convert(xml,N'<entries><entry name="FeatureIds" type="string"/></entries>')
declare @p5 bigint
set @p5=NULL
exec dbo.proc_PutPropertySet @PropertySetId='9C7C959D-DAF3-4054-BBF7-F2CFA81D20A5',
     @TypeId='47EF919C-588D-4CFC-A552-762F746A5127', @Version=NULL, @Xml=@p4, @NewVersion=@p5
     output, @CorrelationId='00000000-0000-0000-0000-000000000000'
```

4.1.2 Assign a Feature Set to a Site Subscription

After creating the feature set (previous example), the protocol client assigns the feature set to a site subscription.

The protocol client assigns an existing property set to a site subscription by calling proc_SetSubscriptionMapping. It passes the site subscription identifier (for example: "094EC36A-D30D-4E5E-8CD6-083187304A5A"), the type identifier ("47EF919C-588D-4CFC-A552-762F746A5127"), the property set identifier (for example: "9C7C959D-DAF3-4054-BBF7-F2CFA81D20A5"), and the request identifier (for example: "00000000-0000-0000-0000-000000000000").

The protocol client calls proc_SetSubscriptionMapping as follows:

```sql
exec dbo.proc_SetSubscriptionMapping @SubscriptionId='094EC36A-D30D-4E5E-8CD6-083187304A5A',
       @TypeId='47EF919C-588D-4CFC-A552-762F746A5127', @PropertySetId='9C7C959D-DAF3-4054-BBF7-F2CFA81D20A5', @CorrelationId='00000000-0000-0000-0000-000000000000'
```

4.1.3 Update the Feature Definition Identifiers of a Feature Set

To update the list of feature definition identifiers belonging to a feature set, the protocol client updates the current XML string by adding or removing feature definition identifiers, and then
 commits the change by calling proc_PutPropertySet with the updated feature definition identifier XML string.

The protocol client updates an existing property set of type feature set by calling proc_PutPropertySet. It passes the property set identifier (for example: "9C7C959D-DAF3-4054-BBF7-F2CFA81D20A5"), the type identifier ("47EF919C-588D-4CFC-A552-762F746A5127"), the current version, an XML string that represents the new set of feature definition identifiers (for example: `<entries><entry name="FeatureIds" type="string">3a1dd49f-c4a7-4294-a6ef-08ee1677010e;</entry></entries>`), an out variable to collect the new version number, and the request identifier (for example: "00000000-0000-0000-0000-000000000000").

The protocol client calls proc_PutPropertySet as follows:

```sql
declare @p4 xml
set @p4=convert(xml,N'<entries><entry name="FeatureIds" type="string">3a1dd49f-c4a7-4294-a6ef-08ee1677010e;</entry></entries>')
declare @p5 bigint
set @p5=NULL
exec dbo.proc_PutPropertySet @PropertySetId='9C7C959D-DAF3-4054-BBF7-F2CFA81D20A5', @TypeId='47EF919C-588D-4CFC-A552-762F746A5127', @Version=1, @Xml=@p4, @NewVersion=@p5 output, @CorrelationId='00000000-0000-0000-0000-000000000000'
```

### 4.1.4 Fetch All Existing Feature Sets

To retrieve all existing feature sets, the protocol client retrieves all property sets that have their type identifier set to that of a feature set.

The protocol client first calls proc_GetPropertySetIdsByType to get all the property set identifiers, belonging to property sets that have their type identifier set to that of a feature set. It passes the type identifier ("47EF919C-588D-4CFC-A552-762F746A5127") and the request identifier (for example: "00000000-0000-0000-0000-000000000000").

For each of the property set identifiers returned, the protocol client then calls proc_GetPropertySet to get the details of the property set. It passes the property set identifier (for example: "9C7C959D-DAF3-4054-BBF7-F2CFA81D20A5"), the type identifier ("47EF919C-588D-4CFC-A552-762F746A5127"), and the request identifier (for example: "00000000-0000-0000-0000-000000000000").

The protocol client calls proc_GetPropertySetIdsByType as follows:

```sql
exec dbo.proc_GetPropertySetIdsByType @TypeId='47EF919C-588D-4CFC-A552-762F746A5127', @CorrelationId='00000000-0000-0000-0000-000000000000'
```

The result set returned is as shown in the following table.

<table>
<thead>
<tr>
<th>PropertySetId</th>
</tr>
</thead>
<tbody>
<tr>
<td>9C7C959D-DAF3-4054-BBF7-F2CFA81D20A5</td>
</tr>
</tbody>
</table>

The protocol client then calls proc_GetPropertySet for each of the property set identifiers returned to get details about the property set:
exec dbo.proc_GetPropertySet @PropertySetId='9C7C959D-DAF3-4054-BBF7-F2CFA81D20A5', @TypeId='47EF919C-588D-4CFC-A552-762F746A5127', @CorrelationId='00000000-0000-0000-0000-000000000000'

The result set returned is as shown in the following table.

<table>
<thead>
<tr>
<th>Version</th>
<th>Xml</th>
<th>PropertySetId</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>&lt;entries&gt;&lt;entry name=&quot;FeatureIds&quot; type=&quot;string&quot; /&gt;3a1dd49f-c4a7-4294-a6ef-08ee1677010e;&lt;/entries&gt;</td>
<td>9C7C959D-DAF3-4054-BBF7-F2CFA81D20A5</td>
</tr>
</tbody>
</table>

4.1.5 Fetch the Feature Set Assigned to a Site Subscription

The details of a property set that is assigned to a site subscription can be retrieved in one call to the protocol server.

The protocol client calls proc_GetSubscriptionPropertySet to get the property set assigned to a site subscription. It passes the site subscription identifier (for example: "094EC36A-D30D-4E5E-8CD6-083187304A5A"), the type identifier ("47EF919C-588D-4CFC-A552-762F746A5127"), and the request identifier (for example: "00000000-0000-0000-0000-000000000000").

The protocol client calls proc_GetSubscriptionPropertySet as follows:

exec dbo.proc_GetSubscriptionPropertySet @SubscriptionId='094EC36A-D30D-4E5E-8CD6-083187304A5A', @TypeId='47EF919C-588D-4CFC-A552-762F746A5127', @CorrelationId='00000000-0000-0000-0000-000000000000'

The result set returned is as shown in the following table.

<table>
<thead>
<tr>
<th>Version</th>
<th>Xml</th>
<th>PropertySetId</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>&lt;entries&gt;&lt;entry name=&quot;FeatureIds&quot; type=&quot;string&quot; /&gt;3a1dd49f-c4a7-4294-a6ef-08ee1677010e;&lt;/entries&gt;</td>
<td>9C7C959D-DAF3-4054-BBF7-F2CFA81D20A5</td>
</tr>
</tbody>
</table>

4.1.6 Delete a Feature Set

A property set can be deleted from the protocol server by calling proc_DropPropertySet.

The protocol client deletes a property set by calling proc_DropPropertySet. It passes the property set identifier (for example: "9C7C959D-DAF3-4054-BBF7-F2CFA81D20A5"), the type identifier ("47EF919C-588D-4CFC-A552-762F746A5127"), the current version, and the request identifier (for example: "00000000-0000-0000-0000-000000000000").

The protocol client calls proc_DropPropertySet as follows:

exec dbo.proc_DropPropertySet @PropertySetId='9C7C959D-DAF3-4054-BBF7-F2CFA81D20A5', @TypeId='47EF919C-588D-4CFC-A552-762F746A5127', @Version=2, @CorrelationId='00000000-0000-0000-0000-000000000000'
5 Security

5.1 Security Considerations for Implementers

Interactions with SQL are susceptible to tampering and other forms of security risks. Implementers are advised to sanitize input parameters for stored procedures before invoking them.

5.2 Index of Security Parameters

None.
6 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:

- Microsoft® SharePoint® Foundation 2010
- Microsoft® SharePoint® Foundation 2013 Preview

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.
7 Change Tracking

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

A
Abstract data model
client 26
server 16
Applicability 7
Assign a feature set to a site subscription example 27
Attribute groups - overview 15
Attributes - overview 14

B
Binary structures - overview 11
Bit fields - overview 11
booleanEntry common type 9

C
Capability negotiation 7
Change tracking 32
Client
abstract data model 26
higher-layer triggered events 26
initialization 26
local events 26
message processing 26
sequencing rules 26
timer events 26
timers 26
Common data types
booleanEntry 9
datetimeEntry 10
guidEntry 10
intEntry 9
longEntry 9
nullEntry 8
overview 8
stringEntry 8
Complex types - overview 14
Create a feature set example 27

D
Data model - abstract
client 26
server 16
Data types
booleanEntry common type 9
common
datetimeEntry common type 10
guidEntry common type 10
intEntry common type 9
longEntry common type 9
nullEntry 8
stringEntry common type 8
Subscription Settings Type Identifiers simple type
11
Data types - common

booleanEntry 9
Data types Subscription Settings Property Set
XML 8
datetimeEntry 10
guidEntry 10
intEntry 9
longEntry 9
nullEntry 8
stringEntry 8
Data types - simple
overview 11
Subscription Settings Type Identifiers 11
DateTime bit field 11
datetimeEntry common type 10
Delete a feature set example 29

E
Elements - overview 14
Events
local - client 26
local - server 26
timer - client 26
timer - server 25
Examples
assign a feature set to a site subscription 27
create a feature set 27
delete a feature set 29
fetch all existing feature sets 28
fetch the feature set assigned to a site subscription 29
manage the feature set of a site subscription 27
update the feature set definition identifiers of a feature set 27

F
Fetch all existing feature sets example 28
Fetch the feature set assigned to a site subscription example 29
Fields - vendor-extensible 7
Flag structures - overview 11

G
Glossary 5
Groups - overview 14
guidEntry common type 10

H
Higher-layer triggered events
client 26
server 16

I
Implementer - security considerations 30
Index of security parameters 30

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Informative references 6

Initialization
  client 26
  server 16
intEntry common type 9

Introduction 5

Local events
  client 26
  server 26
longEntry common type 9

Manage the feature set of a site subscription
example 27
Mapping table structure 14

Message processing
  client 26

Messages
  attribute groups 15
  attributes 14
  binary structures 11
  bit fields 11
  common data types 8
  complex types 14
  DateTime bit field 11
  elements 14
  enumerations 11
  flag structures 11
  groups 14
  Mapping table structure 14
  namespaces 14
  proc_GetPropertySetIdsByType.ResultSet0 12
  proc_GetSiteSubscriptions.ResultSet0 result set 12
  proc_GetSubscriptionPropertySetId.ResultSet0 12
  proc_SubscriptionPropertySet.ResultSet0 13
  PropertySet table structure 13
  simple data types 11
  simple types 14
  transport 8
  XML structures 14

Methods
  proc_CreateSubscriptionMetadata 24
  proc_DropPropertySet 16
  proc_DropSubscriptionMapping 17
  proc_GetPropertySet 18
  proc_GetPropertySetIdsByType 18
  proc_GetSiteSubscriptions 19
  proc_GetSubscriptionMetadata 24
  proc_GetSubscriptionNextAppSiteDomainId 25
  proc_GetSubscriptionPropertySet 19
  proc_GetSubscriptionPropertySetId 20
  proc_PutPropertySet 21
  proc_SetSubscriptionMapping 22
  proc_SetSubscriptionPropertySet 23

Namespaces 14
Normative references 5
nullEntry common type 8

Overview (synopsis) 6

Parameters - security index 30
Prerequisites 7
Preconditions 7
proc_CreateSubscriptionMetadata method 24
proc_DropPropertySet method 16
proc_DropSubscriptionMapping method 17
proc_GetPropertySet method 18
proc_GetPropertySet.ResultSet0 result set 11
proc_GetPropertySetIdsByType method 18
proc_GetPropertySetIdsByType.ResultSet0 result set 12
proc_GetPropertySetIdsByType.ResultSet0_result_set 12
proc_GetSiteSubscriptions method 19
proc_GetSiteSubscriptions.ResultSet0 result set 12
proc_GetSubscriptionMetadata method 24
proc_GetSubscriptionNextAppSiteDomainId method 25
proc_GetSubscriptionPropertySet method 19
proc_GetSubscriptionPropertySetId method 20
proc_GetSubscriptionPropertySetId.ResultSet0_result_set 12
proc_PutPropertySet method 21
proc_SetSubscriptionMapping method 22
proc_SetSubscriptionMapping.ResultSet0 result set 12
proc_SetSubscriptionPropertySet method 23
proc_SetSubscriptionPropertySet.ResultSet0 result set 13
Product behavior 31
PropertySet table structure 13

References 5
  informative 6
  normative 5

Relationship to other protocols 6

Result sets - messages
  proc_GetPropertySet.ResultSet0 11
  proc_GetPropertySetIdsByType.ResultSet0 12
  proc_GetSiteSubscriptions.ResultSet0 12
  proc_GetSubscriptionPropertySetId.ResultSet0 12
  proc_SetSubscriptionMapping.ResultSet0 12
  proc_SetSubscriptionPropertySet.ResultSet0 13

Security
  implementer considerations 30
parameter index 30
Sequencing rules
client 26
Server
abstract data model 16
higher-layer triggered events 16
initialization 16
local events 26
proc_CreateSubscriptionMetadata method 24
proc_DropPropertySet method 16
proc_DropSubscriptionMapping method 17
proc_GetPropertySet method 18
proc_GetPropertySetIdsByType method 18
proc_GetSiteSubscriptions method 19
proc_GetSubscriptionMetadata method 24
proc_GetSubscriptionNextAppSiteDomainId method 25
proc_GetSubscriptionPropertySet method 19
proc_GetSubscriptionPropertySetId method 20
proc_PutPropertySet method 21
proc_SetSubscriptionMapping method 22
proc_SetSubscriptionPropertySet method 23
timer events 25
timers 16
Server details
overview 16
Simple data types
overview 11
Subscription Settings Type Identifiers 11
Simple types - overview 14
Standards assignments 7
stringEntry common type 8
Structures
binary 11
XML 14
Subscription Settings property Set XML common type (section 2.2.1 8, section 2.2.1 8)
Subscription Settings Type Identifiers simple type 11

T
Table structures
Mapping 14
PropertySet table structure 13
Timer events
client 26
server 25
Timers
client 26
server 16
Tracking changes 32
Transport 8
Triggered events - higher-layer
client 26
server 16
Types
complex 14
simple 14
Update the feature definition identifiers of a feature example 27
Vendor-extensible fields 7
Versioning 7
XML structures 14

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