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<th>Revision History</th>
<th>Revision Class</th>
<th>Comments</th>
</tr>
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<td>No change</td>
<td>No changes to the meaning, language, or formatting of the technical content.</td>
</tr>
</tbody>
</table>
# Table of Contents

## 1 Introduction

1.1 Glossary ............................................................................................................. 7  
1.2 References ......................................................................................................... 8  
1.3 Overview ............................................................................................................ 8  
1.4 Relationship to Other Protocols ........................................................................... 9  
1.5 Prerequisites/Preconditions ............................................................................... 9  
1.6 Applicability Statement ....................................................................................... 9  
1.7 Versioning and Capability Negotiation ............................................................... 9  
1.8 Vendor-Extensible Fields ..................................................................................... 9  
1.9 Standards Assignments ...................................................................................... 10  

## 2 Messages

2.1 Transport ............................................................................................................ 11  
2.2 Common Data Types .......................................................................................... 11  
2.2.1 Simple Data Types and Enumerations ........................................................... 11  
2.2.2 Bit Fields and Flag Structures ....................................................................... 11  
2.2.3 Binary Structures ......................................................................................... 11  
2.2.4 Result Sets ................................................................................................... 11  
2.2.4.1 proc_SocialComments_GetForUrlBase_ResultSet0 .............................................. 11  
2.2.4.2 proc_SocialComments_GetForUser_ResultSet0 .................................................... 12  
2.2.4.3 proc_SocialComments_GetForUserWithTag_ResultSet0 ..................................... 12  
2.2.4.4 proc_SocialRatings_GetForUser_ResultSet0 ..................................................... 13  
2.2.4.5 proc_SocialRatings_GetRatingsForUpdate_ResultSet0 ...................................... 13  
2.2.4.6 proc_SocialTags_GetForTerms_ResultSet0 ....................................................... 14  
2.2.4.7 proc_SocialTags_GetForUser_ResultSet0 ......................................................... 14  
2.2.4.8 proc_SocialTags_GetTerms_ResultSet0 .......................................................... 15  
2.2.4.9 proc_SocialTags_GetTermsForUser.proc_SocialTags_GetTermsForUser.Default_ResultSet0 .......................................................... 15  
2.2.4.10 proc_SocialTags_GetUrlsForTerm_ResultSet0 .............................................. 15  
2.2.4.11 proc_Social_GetUsers_ResultSet0 ................................................................. 15  
2.2.4.12 proc_SocialComments_GetForUrl_Default_ResultSet0 .................................. 15  
2.2.4.13 proc_SocialRatings_GetForUrl_Default_ResultSet0 ....................................... 16  
2.2.4.14 proc_SocialTags_GetTermsForUrl_Default_ResultSet0 .................................. 16  
2.2.4.15 proc_SocialTags_GetTermsForUser_Default_ResultSet0 ................................ 17  
2.2.4.16 proc_SocialComments_GetDeletes_ResultSet0 .............................................. 17  
2.2.4.17 proc_SocialTags_GetUsersForTerm_ResultSet0 ............................................. 17  
2.2.4.18 proc_SocialTags_GetByTime_ResultSet0 ....................................................... 18  
2.2.4.19 proc_SocialTags_GetChangedUsers_ResultSet0 .......................................... 18  
2.2.4.20 proc_SocialTags_GetDeletes_ResultSet0 ..................................................... 18  
2.2.4.21 proc_SocialTags_GetForReplicationByTime_ResultSet0 ................................. 19  
2.2.4.22 proc_SocialTags_GetForReplicationByUser_ResultSet0 .................................. 19  
2.2.4.23 proc_SocialTags_GetUrlCountsForTerm_ResultSet0 ...................................... 20  
2.2.4.24 proc_SocialRatings_GetByTime_ResultSet0 .................................................. 20  
2.2.4.25 proc_SocialRatings_GetDeletes_ResultSet0 .................................................. 21  
2.2.4.26 proc_Social_GetSecurityTrimUrls_ResultSet0 .......................................... 21  
2.2.5 Tables and Views .......................................................................................... 21  
2.2.6 XML Structures ........................................................................................... 21
3 Protocol Details ...................................................................................................... 23
  3.1 Common Details .................................................................................................. 23
  3.2 Server Details ..................................................................................................... 23
    3.2.1 Abstract Data Model ....................................................................................... 23
      3.2.1.1 Social Tags .............................................................................................. 23
      3.2.1.2 Social Comments (Notes) ........................................................................ 23
      3.2.1.3 Social Ratings ......................................................................................... 23
    3.2.2 Timers .......................................................................................................... 23
    3.2.3 Initialization .................................................................................................. 23
    3.2.4 Higher-Layer Triggered Events ......................................................................... 24
    3.2.5 Message Processing Events and Sequencing Rules .............................................. 24
      3.2.5.1 proc_Admin_DeletePartition ....................................................................... 24
      3.2.5.2 proc_Admin_SetupPartition ........................................................................ 24
      3.2.5.3 proc_SocialComments_Add ....................................................................... 25
      3.2.5.4 proc_SocialComments_Count .................................................................... 26
      3.2.5.5 proc_SocialComments_Delete ................................................................... 26
      3.2.5.6 proc_SocialComments_Get ....................................................................... 27
      3.2.5.7 proc_SocialComments_GetForUrl ............................................................. 28
      3.2.5.8 proc_SocialComments_GetForUser ............................................................ 29
      3.2.5.9 proc_SocialComments_GetForUserWithTag ............................................... 30
      3.2.5.10 proc_SocialComments_Update ................................................................. 30
      3.2.5.11 proc_SocialRatings_Add ......................................................................... 31
      3.2.5.12 proc_SocialRatings_Count ..................................................................... 32
      3.2.5.13 proc_SocialRatings_Delete .................................................................... 33
      3.2.5.14 proc_SocialRatings_DeleteForUser .......................................................... 33
      3.2.5.15 proc_SocialRatings_Get ........................................................ ................. 34
      3.2.5.16 proc_SocialRatings_GetAverage ............................................................... 35
      3.2.5.17 proc_SocialRatings_GetForUrl ................................................................. 36
      3.2.5.18 proc_SocialRatings_GetForUser ............................................................... 37
      3.2.5.19 proc_SocialRatings_GetForUpdate ........................................................... 37
      3.2.5.20 proc_SocialRatings_GetLastAverageSyncTime ......................................... 38
      3.2.5.21 proc_SocialRatings_SetLastAverageSyncTime ......................................... 38
      3.2.5.22 proc_SocialTags_Add .............................................................................. 39
      3.2.5.23 proc_SocialTags_Count ........................................................................... 40
      3.2.5.24 proc_SocialTags_Delete .......................................................................... 41
      3.2.5.25 proc_SocialTags_DeleteForUser ............................................................... 41
      3.2.5.26 proc_SocialTags_Get ............................................................................... 42
      3.2.5.27 proc_SocialTags_GetForTerms ................................................................. 43
      3.2.5.28 proc_SocialTags_GetBaseUrl ................................................................... 43
      3.2.5.29 proc_SocialTags_GetTerms ..................................................................... 44
      3.2.5.30 proc_SocialTags_GetTermsForUser .......................................................... 45
      3.2.5.31 proc_SocialTags_GetTermsForUrl ............................................................ 45
      3.2.5.32 proc_SocialTags_GetUsers ...................................................................... 47
      3.2.5.33 proc_SocialTags_Update ........................................................................ 47
      3.2.5.34 proc_Social_GetUsers ............................................................................ 48

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4 Protocol Examples

4.1 Add a Social Tag to a URI

4.2 Add a Social Comment to a URI

4.3 Delete a Social Tag from a URI
1 Introduction

This document specifies the User Profile Social Data Stored Procedure Protocol. This protocol allows clients to perform create, read, update, and delete operations on social metadata stored in a social data store on a site.

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]:

Coordinated Universal Time (UTC)
GUID

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

back-end database server
base URI
content database
current user
document library
farm
list item
locale
request identifier
result set
return code
security trimming
Simple Object Access Protocol (SOAP)
site collection
social comment
social data
social rating
social tag
stored procedure
tenant
term
term store
Transact-Structured Query Language (T-SQL)
Uniform Resource Identifier (URI)
Uniform Resource Locator (URL)
user profile
user profile record identifier
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.


Note There is a charge to download the specification.


1.2.2 Informative References


[MS-OFCGLOS] Microsoft Corporation, "Microsoft Office Master Glossary".


1.3 Overview

This protocol provides a way for a protocol client to interact with the social data store. The social metadata store holds various attribute objects that represent information about documents and web pages that can be used across site collections. This protocol provides a way for the client to retrieve this information, write new information, remove information, or update existing information for each type of social data.

The social data store contains information about a document or web page that can make it easier to find and promote content. Social data is tied to individual users identified in the user profile store. There are three types social metadata: social tags, social comments or Notes and social...
ratings. Social Tags are descriptive keyword terms applied to a URI. Social Tags can be visible to all users or marked as private, meaning only the person who created the tag or an administrator can view it. Social comments or Notes are longer form blocks of text that allow comments or short announcements about a URI. Notes are viewable by all users. Social ratings are a judgment of 1 to 5 stars of the quality of a document in a document library or a list item. The protocol allows the protocol client to create tags, notes and ratings and set metadata on each social metadata item. This protocol facilitates the protocol clients to add, remove and update existing tags, notes and ratings, as well as query the protocol server for a list of all tags, notes, and ratings with metadata.

1.4 Relationship to Other Protocols

![Figure 1: This protocol in relation to other protocols](image)

1.5 Prerequisites/Preconditions

The operations described by the protocol operate between a client and a back-end database server on which the databases are stored. The 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 stored on the back-end database server.

1.6 Applicability Statement

This protocol was designed with the intention of supporting a scale point of approximately 2 million user profiles on average of 500 social tags, 300 notes and 300 ratings.

1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

- Supported Transports: This protocol can be implemented by using transports that support sending SOAP (Simple Object Access Protocol) messages, as specified in section 2.1.
- Protocol Versions: This protocol is not versioned.
- Capability Negotiation: This protocol does not support version negotiation.

1.8 Vendor-Extensible Fields

None
1.9 Standards Assignments

None
2 Messages

2.1 Transport

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

2.2 Common Data Types

This section contains common definitions used by this protocol.

2.2.1 Simple Data Types and Enumerations

No common simple data types or enumerations are defined in this protocol.

2.2.2 Bit Fields and Flag Structures

No common bit fields or flag structures are defined in this protocol.

2.2.3 Binary Structures

No common binary structures are defined in this protocol.

2.2.4 Result Sets

2.2.4.1 proc_SocialComments_GetForUrlBase.ResultSet0

The proc_SocialComments_GetForUrlBase.ResultSet0 result set returns the social comment data corresponding to a set of input parameters.

CommentID bigint,
User_RecordID bigint,
Url nvarchar(2084),
LastModifiedTime datetime,
Comment nvarchar(4000),
IsHighPriority bit,
Title nvarchar(500),

CommentID: Specifies the identifier of the social comment. This value MUST NOT be NULL.

User_RecordID: Specifies the record identifier for the user profile who added the social comment. This value MUST NOT be NULL.

Url: Specifies the URI associated with the social comment. This value MUST NOT be NULL or empty.

LastModifiedTime: Specifies a timestamp in UTC format when the social comment was last modified. This value MUST NOT be NULL.

Comment: Specifies the text of the social comment.

IsHighPriority: A bit flag specifying if the social comment is of high priority. If the value is 1, the priority is high. Otherwise, the priority is normal. This value MUST NOT be NULL.
Title: Specifies the title of the URI for which the social comment was made at the time of last modification.

2.2.4.2 proc_SocialComments_GetForUser.ResultSet0

The proc_SocialComments_GetForUser.ResultSet0 result set returns the social comment data corresponding to a set of input parameters.

CommentID bigint,
Url nvarchar(2084),
LastModifiedTime datetime,
Comment nvarchar(4000),
IsHighPriority bit,
Title nvarchar(500),

CommentID: Specifies the identifier of the social comment. This value MUST NOT be NULL.

Url: Specifies the URI associated with the social comment. This value MUST NOT be NULL.

LastModifiedTime: Specifies a timestamp in UTC format when the social comment was last modified. This value MUST NOT be NULL.

Comment: Specifies the text of the social comment.

IsHighPriority: A bit flag specifying if the social comment is of high priority. If the value is 1, the priority is high. Otherwise, the priority is normal. This value MUST NOT be NULL.

Title: Specifies the title of the URI for which the social comment was made at the time of last modification.

2.2.4.3 proc_SocialComments_GetForUserWithTag.ResultSet0

The proc_SocialComments_GetForUserWithTag.ResultSet0 result set returns the social comment data corresponding to a set of input parameters. The result set MUST be sorted on the LastModifiedTime column in descending order.

CommentID bigint,
User_RecordID bigint,
LastModifiedTime datetime,
Comment nvarchar(4000),
IsHighPriority bit,
Title nvarchar(500),
Url nvarchar(2084),

CommentID: Specifies the identifier of the social comment. This value MUST NOT be NULL.

User_RecordID: Specifies the record identifier for the user profile who added the social comment. This value MUST NOT be NULL.

LastModifiedTime: Specifies a timestamp in UTC format when the social comment was last modified. This value MUST NOT be NULL.

Comment: Specifies the text of the social comment.
**IsHighPriority:** A bit flag specifying if the social comment is of high priority. If the value is 1, the priority is high. Otherwise, the priority is normal. This value MUST NOT be NULL.

**Title:** Specifies the title of the URI for which the social comment was made at the time of last modification.

**Url:** Specifies the URI associated with the social comment.

### 2.2.4.4  proc_SocialRatings_GetForUser.ResultSet0

The `proc_SocialRatings_GetForUser.ResultSet0` result set contains information about the social ratings associated with a particular user profile.

```sql
Url nvarchar(2084),
Rating int,
LastModifiedTime datetime,
Title nvarchar(500),
```

**Url:** Specifies the URI associated with the social rating. This value MUST NOT be NULL or empty.

**Rating:** An integer specifying the social rating value in the range from 0 through 5. This value represents the 5-star rating system.

**LastModifiedTime:** Specifies a timestamp in UTC format when the rating was last modified. This value MUST NOT be NULL.

**Title:** Specifies the title of the URI for which the social ratings was made at the time of last modification.

### 2.2.4.5  proc_SocialRatings_GetRatingsForUpdate.ResultSet0

The `proc_SocialTags_GetRatingsForUpdate.ResultSet0` result set returns a list of average values of social ratings for a URI. The result set MUST contain exactly one row for each URI with a social rating.

```sql
Url nvarchar(2084),
AvgRating numeric(15,255),
RatingCount bigint,
ComputedTime datetime,
AverageID bigint,
```

**Url:** The URI. The value MUST NOT be NULL or empty.

**AvgRating:** The average value, in the range from 0.0 through 5.0, of social ratings for the URI. The value MUST NOT be NULL. This value represents the 5-star rating system.

**RatingCount:** The number of social ratings for the URI. The value MUST NOT be NULL.

**ComputedTime:** The time taken to compute the social rating average for this URI.

**AverageID:** The identifier of this social rating average.
2.2.4.6 proc_SocialTags_GetForTerms.ResultSet0

The proc_SocialTags_GetForTerms.ResultSet0 result set returns a list of social tags. The result set MUST contain exactly one row for each social tag returned sorted by LastModifiedTime in descending order.

TermID uniqueidentifier,
User_RecordID bigint,
LastModifiedTime datetime,
Title nvarchar(500),
IsPrivate bit,
Url nvarchar(2084),

TermID: The identifier of the term associated with the social tag. The value MUST NOT be NULL.

User_RecordID: The record identifier of the user profile associated with the social tag. The value MUST NOT be NULL.

LastModifiedTime: The date and time in UTC format when the social tag was last modified. The value MUST NOT be NULL.

Title: The title of the URI for which the social tag was made at the time of last modification. The value MUST NOT be NULL.

IsPrivate: A bit specifying if the social tag is private. If the value is 1 the social tag is private. If the value is 0 the social tag is public. The value MUST NOT be NULL.

Url: The URI associated with the social tag. The value MUST NOT be NULL.

2.2.4.7 proc_SocialTags_GetForUser.ResultSet0

The proc_SocialTags_GetForUser.ResultSet0 result set returns a list of social tags. The result set MUST contain exactly one row for each social tag returned sorted by LastModifiedTime in descending order.

TermID uniqueidentifier,
LastModifiedTime datetime,
Title nvarchar(500),
IsPrivate bit,
Url nvarchar(2084),

TermID: The identifier of the term associated with the social tag. The value MUST NOT be NULL.

LastModifiedTime: The date and time in UTC format when the social tag was last modified. The value MUST NOT be NULL.

Title: The current title of the URI.

IsPrivate: A bit specifying if the social tag is private or public. If the value is 1 the social tag is private. If the value is 0 the social tag is public. The value MUST NOT be NULL.

Url: The URI associated with the social tag. The value MUST NOT be NULL.
2.2.4.8  proc_SocialTags_GetTerms.ResultSet0

The proc_SocialTags_GetTerms.ResultSet0 result set returns a list of terms. The result set MUST contain exactly one row for each term returned sorted by TermCount in descending order.

TermID uniqueidentifier,
TermCount bigint,

TermID: The identifier of the term. The value MUST NOT be NULL.
TermCount: The number of social tags using the term. The value MUST NOT be NULL.

2.2.4.9  proc_SocialTags_GetTermsForUser.proc_SocialTags_GetTermsForUser.Default.ResultSet0

The proc_SocialTags_GetTermsForUser.ResultSet0 result set returns a list of terms. The result set MUST contain exactly one row for each term returned.

TermID uniqueidentifier,
TermCount int,

TermID: The identifier of the term. The value MUST NOT be NULL.
TermCount: The number of social tags using the term. The value MUST NOT be NULL.

2.2.4.10 proc_SocialTags_GetUrlsForTerm.ResultSet0

The proc_SocialTags_GetUrlsForTerm.ResultSet0 result set returns a list of URIs. The result set MUST contain exactly one row for each URI returned.

Url nvarchar(2084),

Url: The URI. The value MUST NOT be NULL or empty.

2.2.4.11 proc_Social_GetUsers.ResultSet0

The proc_Social_GetUsers.ResultSet0 result set returns a list of user profiles. The result set MUST contain exactly one row for each user profile returned.

User_RecordID bigint,
UserID uniqueidentifier,

User_RecordID: The record identifier of the user profile. The value MUST NOT be NULL.
UserID: The unique identifier of the user profile. The value MUST NOT be NULL.

2.2.4.12 proc_SocialComments_GetForUrl.Default.ResultSet0

The proc_SocialComments_GetForUrl.proc_SocialComments_GetForUrl.Default.ResultSet0 result set returns the social comment data corresponding to a set of input parameters.
CommentID bigint,
User_RecordID bigint,
LastModifiedTime datetime,
Comment nvarchar(4000),
IsHighPriority bit,
Title nvarchar(500),

CommentID: Specifies the identifier of the social comment. This value MUST NOT be NULL.

User_RecordID: Specifies the record identifier for the user profile who added the social comment. This value MUST NOT be NULL.

LastModifiedTime: Specifies a timestamp in UTC format when the social comment was last modified. This value MUST NOT be NULL.

Comment: Specifies the text of the social comment.

IsHighPriority: A bit flag specifying if the social comment is of high priority. If the value is 1, the priority is high. Otherwise, the priority is normal. This value MUST NOT be NULL.

Title: Specifies the title of the URI for which the social comment was made at the time of last modification.

2.2.4.13 proc_SocialRatings_GetForUrl.Default.ResultSet0

The proc_SocialRatings_GetForUrl.proc_SocialRatings_GetForUrl.Default.ResultSet0 result set contains information about the social ratings associated with a particular URI.

User_RecordID bigint,
Rating int,
LastModifiedTime datetime,

User_RecordID: A user profile record identifier associated with the social rating. This value MUST NOT be NULL.

Rating: An integer specifying the social rating value in the range from 0 through 100.

LastModifiedTime: Specifies a timestamp in UTC format when the social rating was last modified. This value MUST NOT be NULL.

2.2.4.14 proc_SocialTags_GetTermsForUrl.Default.ResultSet0

The proc_SocialTags_GetTermsForUrl.proc_SocialTags_GetTermsForUrl.Default.ResultSet0 result set returns a list of terms. The result set MUST contain exactly one row for each term returned sorted by TermCount in descending order.

TermID uniqueidentifier,
TermCount int,

TermID: The identifier of the term. The value MUST NOT be NULL.

TermCount: The number of social tags using the term. The value MUST NOT be NULL.
2.2.4.15 proc_SocialTags_GetTermsForUser.ResultSet0

The proc_SocialTags_GetTermsForUser.proc_SocialTags_GetTermsForUser.Default.ResultSet0 result set returns a list of social tags. The result set MUST contain exactly one row for each social tag returned.

   TermID uniqueidentifier,
   TermCount int,

TermID: The identifier of the term associated with the social tag. The value MUST NOT be NULL.
TermCount: The number of social tags using the term. The value MUST NOT be NULL.

2.2.4.16 proc_SocialComments_GetDeletes.ResultSet0

The proc_SocialComments_GetDeletes.ResultSet0 result set returns the social comment data corresponding to a set of input parameters.

   User_RecordID bigint,
   Url nvarchar(2084),
   LastModifiedTime datetime,
   DeletedTime datetime,

User_RecordID: Specifies the record identifier for the user profile who added the social comment. This value MUST NOT be NULL.
Url: Specifies the URI associated with the social comment. This value MUST NOT be NULL or empty.
LastModifiedTime: Specifies a timestamp in UTC format when the social comment was last modified. This value MUST NOT be NULL.
DeletedTime: Specifies a timestamp in UTC format when the social comment was deleted. This value MUST NOT be NULL.

2.2.4.17 proc_SocialTags_GetUsersForTerm.ResultSet0

The proc_SocialTags_GetUsersForTerm.ResultSet0 result set returns the user profile data corresponding to a set of input parameters. Results MUST be sorted in descending order by the last modified time of the corresponding social tags.

   User_RecordID bigint,
   Total bigint,
   MaxLMT datetime,

User_RecordID: Specifies the record identifier for the user profile who added the social comment. This value MUST NOT be NULL.
Total: This value MUST be ignored by the protocol client.
MaxLMT: This value MUST be ignored by the protocol client.
2.2.4.18  proc_SocialTags_GetByTime.ResultSet0

The **proc_SocialTags_GetByTime.ResultSet0** result set returns the social tag data corresponding to a set of input parameters.

```sql
User_RecordID bigint,
Url nvarchar(2084),
LastModifiedTime datetime,
TermID uniqueidentifier,
InputTermLabel nvarchar(255),
Title nvarchar(500),
IsPrivate bit,
```

**User_RecordID:** Specifies the record identifier for the user profile who added the social comment. This value MUST NOT be NULL.

**Url:** The URI. The value MUST NOT be NULL.

**LastModifiedTime:** The date and time in UTC format when the social tag was last modified. The value MUST NOT be NULL.

**TermID:** The identifier of the term. The value MUST NOT be NULL.

**InputTermLabel:** A string representation of the input term in the user’s locale at the time of input.

**Title:** The current title of the URI associated with the social tag. The value MUST NOT be NULL.

**IsPrivate:** A bit specifying if the social tag is private. If the value is 1 the social tag is private. If the value is 0 the social tag is public. The value MUST NOT be NULL.

2.2.4.19  proc_SocialTags_GetChangedUsers.ResultSet0

The **proc_SocialTags_GetChangedUsers.ResultSet0** result set returns the social tag data corresponding to a set of input parameters.

```sql
User_RecordID bigint,
```

**User_RecordID:** Specifies the record identifier for the user profile who added the social comment. This value MUST NOT be NULL.

2.2.4.20  proc_SocialTags_GetDeletes.ResultSet0

The **proc_SocialTags_GetDeletes.ResultSet0** result set returns the social tag data corresponding to a set of input parameters.

```sql
User_RecordID bigint,
Url nvarchar(2084),
TermID uniqueidentifier,
DeletedTime datetime,
```

**User_RecordID:** Specifies the record identifier for the user profile who added the social comment. This value MUST NOT be NULL.

**Url:** The URI. The value MUST NOT be NULL.
**TermID:** The identifier of the term. The value MUST NOT be NULL.

**DeletedTime:** The date and time in UTC format when the social tag was deleted. The value MUST NOT be NULL.

### 2.2.4.21 proc_SocialTags_GetForReplicationByTime.ResultSet0

The proc_SocialTags_GetForReplicationByTime.ResultSet0 result set returns the social tag data corresponding to a set of input parameters.

```sql
User_RecordID bigint,
Url nvarchar(2084),
TermID uniqueidentifier,
InputTermLabel nvarchar(255),
Title nvarchar(500),
IsPrivate bit,
LastModifiedTime datetime,
```

**User_RecordID:** Specifies the record identifier for the user profile who added the social comment. This value MUST NOT be NULL.

**Url:** The URI. The value MUST NOT be NULL.

**TermID:** The identifier of the term. The value MUST NOT be NULL.

**InputTermLabel:** A string representation of the input term in the user’s locale at the time of input.

**Title:** The current title of the URI associated with the social tag. The value MUST NOT be NULL.

**IsPrivate:** A bit specifying if the social tag is private. If the value is 1 the social tag is private. If the value is 0 the social tag is public. The value MUST NOT be NULL.

**LastModifiedTime:** The date and time in UTC format when the social tag was last modified. The value MUST NOT be NULL.

### 2.2.4.22 proc_SocialTags_GetForReplicationByUser.ResultSet0

The proc_SocialTags_GetForReplicationByUser.ResultSet0 result set returns the social tag data corresponding to a set of input parameters.

```sql
User_RecordID bigint,
Url nvarchar(2084),
TermID uniqueidentifier,
InputTermLabel nvarchar(255),
Title nvarchar(500),
IsPrivate bit,
LastModifiedTime datetime,
```

**User_RecordID:** Specifies the record identifier for the user profile who added the social comment. This value MUST NOT be NULL.

**Url:** The URI. The value MUST NOT be NULL.

**TermID:** The identifier of the term. The value MUST NOT be NULL.

**InputTermLabel:** A string representation of the input term in the user’s locale at the time of input.
**Title:** The current title of the URI associated with the social tag. The value MUST NOT be NULL.

**IsPrivate:** A bit specifying if the social tag is private. If the value is 1 the social tag is private. If the value is 0 the social tag is public. The value MUST NOT be NULL.

**LastModifiedTime:** The date and time in UTC format when the social tag was last modified. The value MUST NOT be NULL.

### 2.2.4.23 proc_SocialTags_GetUrlCountsForTerm.ResultSet0

The `proc_SocialTags_GetUrlCountsForTerm.ResultSet0` result set returns the social tag data corresponding to a set of input parameters.

```sql
Url nvarchar(2084),
Title nvarchar(500),
LastModifiedTime datetime,
Total int,
```

**Url:** The URI. The value MUST NOT be NULL.

**Title:** The current title of the URI associated with the social tag. The value MUST NOT be NULL.

**LastModifiedTime:** The date and time in UTC format when the social tag was last modified. The value MUST NOT be NULL.

**Total:** The number of times the corresponding URI has been tagged with the input term.

### 2.2.4.24 proc_SocialRatings_GetByTime.ResultSet0

The `proc_SocialRatings_GetByTime.ResultSet0` result set returns the social rating data corresponding to a set of input parameters.

```sql
User_RecordID bigint,
Url nvarchar(2084),
LastModifiedTime datetime,
Rating int,
Title nvarchar(500),
```

**User_RecordID:** Specifies the record identifier for the user profile who added the social rating. This value MUST NOT be NULL.

**Url:** The URI. The value MUST NOT be NULL or empty.

**LastModifiedTime:** Specifies a timestamp in UTC format when the rating was last modified. This value MUST NOT be NULL.

**Rating:** An integer specifying the social rating value in the range from 0 through 5. This value represents the 5-star rating system.

**Title:** Title: Specifies the title of the URI for which the social comment was made at the time of last modification.
2.2.4.25 proc_SocialRatings_GetDeletes.ResultSet0

The proc_SocialRatings_GetDeleted.ResultSet0 result set returns the social rating data corresponding to a set of input parameters.

- User_RecordID bigint,
- Url nvarchar(2084),
- DeletedTime datetime,

**User_RecordID**: Specifies the record identifier for the user profile who added the social rating. This value MUST NOT be NULL.

**Url**: The URI. The value MUST NOT be NULL.

**DeletedTime**: Specifies a timestamp in UTC format when the rating was deleted. This value MUST NOT be NULL.

2.2.4.26 proc_Social_GetSecurityTrimUrls.ResultSet0

The proc_Social_GetSecurityTrimUrls.ResultSet0 result set returns the set of URIs associated with the security trimming heuristics corresponding to a set of input parameters.

- Url nvarchar(2084),
- AlwaysAllow bit,

**Url**: The URI. The value MUST NOT be NULL or empty.

**AlwaysAllow**: A bit specifying whether social data whose Url values are hierarchical descendants of the value in the Url column of the results set need to pass the security trimming heuristics before being included in any results set returned to a user. If the value is 1, all matching social data MUST always be included in the results set returned to a user. If the value is zero, all matching social data MUST first pass the security trimming heuristics before being returned to a user. The value MUST NOT be NULL.

2.2.5 Tables and Views

No common table or view structures are defined in this protocol.

2.2.6 XML Structures

No common XML structures are defined in this protocol.

2.2.6.1 Namespaces

This specification does not define any common XML schema namespaces.

2.2.6.2 Simple Types

This specification does not define any common XML schema simple type definitions.

2.2.6.3 Complex Types

This specification does not define any common XML schema complex type definitions.
2.2.6.4 Elements
This specification does not define any common XML schema element definitions.

2.2.6.5 Attributes
This specification does not define any common XML schema attribute definitions.

2.2.6.6 Groups
This specification does not define any common XML schema group definitions.

2.2.6.7 Attribute Groups
This specification does not define any common XML schema attribute group definitions.
3 Protocol Details

3.1 Common Details

None.

3.2 Server Details

This section provides information about the protocol server.

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.

3.2.1.1 Social Tags

The protocol enables the user to add keywords to describe documents and web pages published with a URI. The social tags are stored in the protocol server. They are not part of the document or web page. Each of the tags has an identifier and is associated with a URI. Other information stored in the server include the person applying the tag, a permission flag specifying whether the tag is visible only to the person applying the tag and the date of last modification. The tag identifier is retrieved from the term store.

3.2.1.2 Social Comments (Notes)

The protocol enables the user to add comment text on documents and web pages published with a URI. The social comments are stored in the protocol server. They are not part of the document or web page. Each of the comments has an identifier and is associated with a URI. Other information stored in the server include the author of the comment and the date of last modification.

3.2.1.3 Social Ratings

The protocol enables the user to rate a document or list item stored on the server from 1 through 5 stars. The social ratings are stored in the protocol server. They are not part of the document or list item. Ratings are aggregated on a per item basis. The number of people who have rated the item and the average rating are periodically calculated and stored in the content database. Each of the ratings is associated with a URI. Other information stored in the server include the author of the rating and the date of last modification.

3.2.2 Timers

None.

3.2.3 Initialization

A connection that uses the underlying protocol layers that are specified in section 1.4 MUST be established before using this protocol, as specified in [MS-TDS].
3.2.4 Higher-Layer Triggered Events

None.

3.2.5 Message Processing Events and Sequencing Rules

3.2.5.1 proc_Admin_DeletePartition

The **proc_Admin_DeletePartition** stored procedure is used to remove the data of a specific **Tenant** in the store and to disable the store for use by that **Tenant**.

```sql
PROCEDURE proc_Admin_DeletePartition (  
    @partitionID uniqueidentifier  
    ,@correlationId uniqueidentifier = null  
);  
```

**@partitionID**: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The specified <strong>Tenant</strong> does not exist.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

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

3.2.5.2 proc_Admin_SetupPartition

The **proc_Admin_SetupPartition** stored procedure is used to initialize the store for use by a specific Tenant.

```sql
PROCEDURE proc_Admin_SetupPartition (  
    @partitionID uniqueidentifier  
    ,@correlationId uniqueidentifier = null  
);  
```

**@partitionID**: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The specified <strong>Tenant</strong> already exists.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

**Result Sets**: MUST NOT return any result sets.
### 3.2.5.3 proc_SocialComments_Add

The **proc_SocialComments_Add** stored procedure is called to add a new social comment for a particular URI.

```
PROCEDURE proc_SocialComments_Add (  
    @partitionID uniqueidentifier  
    ,@user_recordID bigint  
    ,@userID uniqueidentifier  
    ,@url nvarchar(2084)  
    ,@comment nvarchar(4000)  
    ,@isHighPriority bit  
    ,@title nvarchar(500) = null  
    ,@commentID bigint OUTPUT  
    ,@lastModifiedTime datetime OUTPUT  
    ,@correlationId uniqueidentifier = null  
);
```

**@partitionID:** A GUID used to filter the current request. This value MUST NOT be NULL or empty.

**@user_recordID:** A record identifier of the user profile associated with the social comment. This parameter MUST NOT be NULL.

**@userID:** A GUID for the user profile associated with the social comment. This parameter MUST NOT be NULL or empty.

**@url:** The URI for which the social comment has to be added. This parameter MUST be a valid URI.

**@comment:** Specifies the content of the social comment.

**@isHighPriority:** A bit flag specifying the priority of the social comment. If the parameter is "1", priority MUST be considered as high. If the parameter is zero ("0"), priority MUST be considered as normal. This parameter MUST NOT be NULL.

**@title:** The current title of the URI specified by **@url**.

**@commentID:** Output parameter indicating the identifier of the social comment just added.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>scope_identity</td>
<td>The last IDENTITY value inserted into an IDENTITY column in the same scope. The IDENTITY value represents the new comment item.</td>
</tr>
</tbody>
</table>

**@lastModifiedTime:** Output parameter indicating the time when the social comment was added in UTC format.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>getutcdate</td>
<td>Returns the current database system timestamp as a datetime value.</td>
</tr>
</tbody>
</table>

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

**Return Values:** An integer that MUST be in the following table.
<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

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

### 3.2.5.4 `proc_SocialComments_Count`

The `proc_SocialComments_Count` stored procedure is called to retrieve the count of the comments made for a given URI or user profile or both.

```sql
PROCEDURE proc_SocialComments_Count (
    @partitionID uniqueidentifier,
    @user_recordID bigint = null,
    @url nvarchar(2084) = null,
    @count int OUTPUT,
    @correlationId uniqueidentifier = null
);
```

- **@partitionID:** A GUID used to filter the current request. This value MUST NOT be NULL or empty.
- **@user_recordID:** A record identifier of the user profile. If this parameter is NULL, it MUST be ignored. This parameter MUST NOT be NULL if @url is NULL.
- **@url:** The URI for which the social comments have to be found. If this parameter is NULL, it MUST be ignored. If @user_recordID is NULL, this parameter MUST be a valid URI.
- **@count:** Output parameter indicating the number of social comments corresponding to the specified input parameters.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>An error occurred or no social comment found.</td>
</tr>
<tr>
<td>SocialComments.count</td>
<td>The number of social comments found.</td>
</tr>
</tbody>
</table>

- **@correlationId:** The optional request identifier for the current request.

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

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

### 3.2.5.5 `proc_SocialComments_Delete`

The `proc_SocialComments_Delete` stored procedure is called to delete a specified social comment. It can also be called to delete all social comments for a specified set of URI, user profile record identifier, and modified date.
PROCEDURE proc_SocialComments_Delete (  
@partitionID uniqueidentifier  
,@commentID bigint = null  
,@user_recordID bigint = null  
,@url nvarchar(2084) = null  
,@lastModifiedTime datetime = null  
,@correlationId uniqueidentifier = null  
);  

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@commentID: Identifier of the social comment. If @commentID is NULL, @user_RecordID, @url, and @lastModifiedTime MUST NOT be NULL.

@user_recordID: A record identifier of the user profile associated with the social comment. If the parameter is NOT NULL and @commentID is NOT NULL, it MUST be equal to the record identifier of the user profile who added the comment for the stored procedure to succeed.

@url: The URI for which the social comment has to be deleted. If this parameter is NOT NULL, it MUST be a valid URI, and @user_RecordID and @lastModifiedTime MUST NOT be NULL. This parameter MUST be NULL if @commentID is NOT NULL.

@lastModifiedTime: A timestamp in UTC format specifying the exact last modified time of the social comment to be deleted. If this parameter is NOT NULL, @user_RecordID and @url MUST NOT be NULL. This parameter MUST be NULL if @commentID is NOT NULL.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets: MUST NOT return any result sets.

3.2.5.6 proc_SocialComments_Get

The proc_SocialComments_Get stored procedure is called to retrieve social comments made by a particular user profile for a particular URI.

PROCEDURE proc_SocialComments_Get (  
@partitionID uniqueidentifier  
,@user_recordID bigint = null  
,@url nvarchar(2084) = null  
,@max int = 1000  
,@correlationId uniqueidentifier = null  
);  

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@user_recordID: A record identifier of the user profile. This parameter MUST be ignored if its value is NULL. If this parameter is NULL, @url MUST NOT be NULL.
@url: A string specifying the URI. This parameter MUST be ignored if its value is NULL. If this parameter is NULL, @user_RecordID MUST NOT be NULL. If this parameter is NOT NULL, this parameter MUST be a valid URI.

@max: Specifies the maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by @max. This parameter MUST be greater than or equal to 0.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets:
For the following combination of parameters:

- @partitionID: select PartitionID from Tenants.
- @url: select Url from Urls.

This stored procedure MUST return a proc_SocialComments_GetForUrl Default.ResultSet0 result set (section 2.2.4.12) upon successful completion. In case of failure, the procedure MUST NOT return any result set.

3.2.5.7 proc_SocialComments_GetForUrl

The proc_SocialComments_GetForUrl stored procedure is called to retrieve social comments for a given URI.

PROCEDURE proc_SocialComments_GetForUrl (  
@partitionID uniqueidentifier  
,@url nvarchar(2084)  
,@max int = 1000  
,@excludeItemsTime datetime = null  
,@correlationId uniqueidentifier = null  
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@url: A string specifying the URI for which social comments have to be retrieved. This parameter MUST be a valid URI.

@max: Specifies the maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by @max. This parameter MUST be greater than or equal to 0.

@excludeItemsTime: A timestamp in UTC format specifying the starting range (exclusive) for the modified date of the comments included in the result set.

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

Return Values: An integer that MUST be in the following table.
<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

**Result Sets:**

For the following combination of parameters:

- **@partitionID**: Select *PartitionID* from *Tenants*.
- **@url**: Select *Url* from *Urls*.

This stored procedure MUST return a `proc_SocialComments_GetForUrl.Default.ResultSet0` result set (section 2.2.4.12) upon successful completion. In case of failure, the procedure MUST NOT return any result set.

### 3.2.5.8 proc_SocialComments_GetForUser

The `proc_SocialComments_GetForUser` stored procedure is called to retrieve social comments made by a given user profile.

```sql
PROCEDURE proc_SocialComments_GetForUser ( 
    @partitionID uniqueidentifier,
    @user_recordID bigint,
    @max int = 100,
    @fromDate datetime = null,
    @toDate datetime = null,
    @correlationId uniqueidentifier = null
);```

- **@partitionID**: A GUID used to filter the current request. This value MUST NOT be NULL or empty.
- **@user_recordID**: A record identifier of the user profile whose social comments have to be returned.
- **@max**: Specifies the maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by `@max`. If `@max` is NULL, greater than 1000, or unspecified, the protocol server MUST return a maximum of 1000 rows. Otherwise, this parameter MUST be a non-negative integer.
- **@fromDate**: A timestamp in UTC format specifying the starting range (inclusive) for the modified date of the comments included in the result set. If this parameter is NULL, the protocol server MUST default this value to [ISO-8601] time 2000-01-01T00:00:00Z.
- **@toDate**: A timestamp in UTC format specifying the ending range (exclusive) for the modified date of the comments included in the result set. If this parameter is NULL, the protocol server MUST default this value to 24 hours after the current system time.
- **@correlationId**: The optional request identifier for the current request.

**Return Values**: An integer that MUST be in the following table.
<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

**Result Sets:**

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

### 3.2.5.9 proc_SocialComments_GetForUserWithTag

The `proc_SocialComments_GetForUserWithTag` stored procedure is called to return the social comments made by a particular user profile and tagged by a particular term.

```
PROCEDURE proc_SocialComments_GetForUserWithTag (  
    @partitionID uniqueidentifier  
    ,@user_recordID bigint  
    ,@termID uniqueidentifier  
    ,@correlationId uniqueidentifier = null  
    ,@max int = 1000  
);  
```

- **@partitionID**: A GUID used to filter the current request. This value MUST NOT be NULL or empty.
- **@user_recordID**: A record identifier of the user profile. This parameter MUST NOT be NULL.
- **@termID**: The identifier of the term. This parameter MUST NOT be NULL or empty.
- **@correlationId**: The optional request identifier for the current request.
- **@max**: Specifies the maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by `@max`. This parameter MUST be greater than or equal to zero.

**Return Values**: An integer that MUST be zero.

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

### 3.2.5.10 proc_SocialComments_Update

The `proc_SocialComments_Update` stored procedure is called to update an existing social comment. The comment to be updated is identified by either `@commentID` or a combination of `@user_RecordID`, `@url`, and `@lastModifiedTime`.

```
PROCEDURE proc_SocialComments_Update (  
    @partitionID uniqueidentifier  
    ,@commentID bigint = null  
    ,@comment nvarchar(4000) = null  
    ,@isHighPriority bit  
    ,@user_recordID bigint = null  
    ,@url nvarchar(2084) = null  
    ,@lastModifiedTime datetime OUTPUT  
    ,@correlationId uniqueidentifier = null  
);  
```
@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@commentID: Identifier of the social comment to be modified. If @commentID is not NULL, @user_recordID, @url MUST be NULL. If @commentID is NULL, @user_recordID, @url and @lastModifiedTime MUST NOT be NULL.

@comment: Specifies the content of the social comment modified by the user.

@isHighPriority: A bit flag specifying the priority of the comment. If the parameter is "1", priority MUST be considered as high. If the parameter is zero ("0"), priority MUST be considered as normal. This parameter MUST NOT be NULL.

@user_recordID: A record identifier of the user profile.

@url: A string specifying the URI. This parameter MUST be a valid URI.

@lastModifiedTime: A timestamp identifying the time this social comment was last modified in UTC format. As an output parameter, this parameter indicates the time when the social comment updated by this stored procedure call. The protocol server MUST set the targeted social comment's last modified time to the returned value.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SocialComments.getutcdatetime</td>
<td>The current database system timestamp as a datetime value.</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets: MUST NOT return any result sets.

3.2.5.11 proc_SocialRatings_Add

The proc_SocialRatings_Add stored procedure is called to add a new social rating. This procedure would update the rating if a rating exists for the URI @url by the user profile @user_recordID.

```sql
PROCEDURE proc_SocialRatings_Add ( 
    @partitionID uniqueidentifier ,
    @user_recordID bigint,
    @userID uniqueidentifier,
    @url nvarchar(2084),
    @rating int,
    @lastModifiedTime datetime OUTPUT,
    @title nvarchar(500) = null,
    @correlationId uniqueidentifier = null ) ;
```
@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@user_recordID: A record identifier of the user profile. This parameter MUST NOT be NULL.

@userID: An identifier for the user profile. This parameter MUST NOT be NULL or empty.

@url: A string specifying the URI for which the social rating has been added. This parameter MUST be a valid URI.

@rating: An integer value indicating the user’s social rating of the URI specified by @url. This parameter MUST be greater than or equal to zero and less than or equal to 5. This value represents the 5-star rating system. This parameter MUST NOT be NULL.

@lastModifiedTime: Output parameter indicating the time when the rating was added in UTC format.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SocialRatings.getutcdate</td>
<td>Returns the current database system timestamp as a datetime value.</td>
</tr>
</tbody>
</table>

@title: The current title of the URI specified by @url.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets: MUST NOT return any result sets.

3.2.5.12 proc_SocialRatings_Count

The proc_SocialRatings_Count stored procedure is called to retrieve the count of social ratings for a particular URI.

```sql
PROCEDURE proc_SocialRatings_Count (  
    @partitionID uniqueidentifier ,
    @url nvarchar(2084) ,
    @count int OUTPUT,
    @correlationId uniqueidentifier = null
);
```

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@url: A string specifying the URI. This parameter MUST be a valid URI.

@count: Output parameter indicating the number of social ratings corresponding to the specified input parameters.
<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Error occurred or no social ratings found.</td>
</tr>
<tr>
<td>SocialRatings_Averages.RatingCount</td>
<td>The number of social ratings corresponding to the URI specified by @url.</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets: MUST NOT return any result sets.

3.2.5.13 proc_SocialRatings_Delete

The proc_SocialRatings_Delete stored procedure is called to delete a social rating.

```
PROCEDURE proc_SocialRatings_Delete (  
@partitionID uniqueidentifier 
, @user_recordID bigint 
, @url nvarchar(2084) 
, @correlationId uniqueidentifier = null 
);
```

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@user_recordID: A record identifier of the user profile whose social rating has to be deleted. This parameter MUST NOT be NULL.

@url: A string specifying the URI whose social rating has to be deleted. This parameter MUST be a valid URI.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets: MUST NOT return any result sets.

3.2.5.14 proc_SocialRatings_DeleteForUser

The proc_SocialRatings_DeleteForUser stored procedure is called to delete all the social ratings added by the specified user profile.
PROCEDURE proc_SocialRatings_DeleteForUser (  
@partitionID uniqueidentifier 
,@user_recordID bigint 
,@correlationId uniqueidentifier = null 
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@user_recordID: A record identifier of the user profile whose social ratings have to be deleted. This parameter MUST NOT be NULL.

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

Return Values: An integer that MUST be zero.

Result Sets: MUST NOT return any result sets.

3.2.5.15 proc_SocialRatings_Get

The proc_SocialRatings_Get stored procedure is called to retrieve the ratings given by a user profile for a particular URI.

PROCEDURE proc_SocialRatings_Get (  
@partitionID uniqueidentifier 
,@user_recordID bigint 
,@url nvarchar(2084) 
,@rating int OUTPUT 
,@lastModifiedTime datetime OUTPUT 
,@title nvarchar(500) OUTPUT 
,@correlationId uniqueidentifier = null 
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@user_recordID: A record identifier of the user profile whose social rating has to be returned. This parameter MUST NOT be NULL.

@url: A string specifying the URI whose social rating has to be returned. This parameter MUST be a valid URI.

@rating: Output parameter indicating the social rating corresponding to the specified input parameters. This value MUST be greater than or equal to zero and less than or equal to 5. This value represents the 5-star rating system.

@lastModifiedTime: Output parameter indicating the time when the social rating was last modified in UTC format.

@title: The current title of the URI specified by @url.

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

Return Values: An integer that MUST be in the following table.
<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

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

### 3.2.5.16 proc_SocialRatings_GetAverage

The **proc_SocialRatings_GetAverage** stored procedure is called to retrieve the average social rating of a given URI.

```sql
PROCEDURE proc_SocialRatings_GetAverage (  
    @partitionID uniqueidentifier,
    @url nvarchar(2084),
    @ratingAvg float OUTPUT,
    @ratingCount bigint OUTPUT,
    @lastModifiedTime datetime OUTPUT,
    @averageID bigint OUTPUT,
    @correlationId uniqueidentifier = null );
```

**@partitionID:** A GUID used to filter the current request. This value MUST NOT be NULL or empty.

**@url:** A string specifying the URI for which the average social rating has to be returned. This parameter MUST be a valid URI.

**@ratingAvg:** Output parameter indicating the average social rating of the URI specified by **@url**. The result MUST be greater than or equal to zero and less than or equal to 5.0, except when the item has not yet been rated, in which case it MUST be NULL. This value represents the 5-star rating system.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SocialRatings_Averages.AvgRating</td>
<td>Average social rating of the URI specified by <strong>@url</strong>.</td>
</tr>
</tbody>
</table>

**@ratingCount:** Output parameter indicating the number of social ratings corresponding to the specified input parameters.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SocialRatings_Averages.RatingCount</td>
<td>Number of social ratings corresponding to the specified input parameters.</td>
</tr>
</tbody>
</table>

**@lastModifiedTime:** Output parameter indicating the time when the social rating was last modified in UTC format.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SocialRatings_Averages.ComputedTime</td>
<td>The timestamp when the social rating was last computed in UTC format.</td>
</tr>
</tbody>
</table>

**@averageID:** Output parameter indicating the identifier of the social rating average.
<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SocialRatings_Averages.UrlID</td>
<td>An identifier of the URI corresponding to @url.</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets: MUST NOT return any result sets.

### 3.2.5.17 proc_SocialRatings_GetForUrl

The proc_SocialRatings_GetForUrl is called to retrieve all the social ratings corresponding to a particular URI.

```sql
PROCEDURE proc_SocialRatings_GetForUrl (  
    @partitionID uniqueidentifier  
    ,@url nvarchar(2084)  
    ,@lastUserId bigint = 0  
    ,@rowcount int = 1000  
    ,@correlationId uniqueidentifier = null  
);
```

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.
@url: A string specifying the URI whose social ratings has to be returned. This parameter MUST be a valid URI.
@lastUserId: The record identifier of the user profile which was the record identified of the last row in the last batch. This batch MUST NOT contain this record identifier.
@rowcount: Maximum number of rows that can be returned.
@correlationId: The optional request identifier for the current request.

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets:
For the following combination of parameters:
- @partitionID: Select PartitionID from Tenants.
• **@url**: Select **Url** from **Urls**.

This stored procedure MUST return a proc_SocialRatings_GetForUrl.Default.ResultSet0 result set upon successful completion. In case of failure, it MUST NOT return any result set.

### 3.2.5.18 proc_SocialRatings_GetForUser

The proc_SocialRatings_GetForUser stored procedure is called to retrieve all the social ratings associated with a particular user profile.

```sql
PROCEDURE proc_SocialRatings_GetForUser (  @partitionID uniqueidentifier  ,@user_recordID bigint  ,@correlationId uniqueidentifier = null  ,@top int = 1000 ) ;
```

**@partitionID**: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

**@user_recordID**: A record identifier of the user profile whose social ratings have to be retrieved. This parameter MUST NOT be NULL.

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

**@top**: Specifies the maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by @top. This value MUST NOT be NULL or negative.

**Return Values**: An integer that MUST be zero.

**Result Sets**

This stored procedure MUST return a proc_SocialRatings_GetForUser.ResultSet0

### 3.2.5.19 proc_SocialRatings_GetLastAverageSyncTime

The proc_SocialRatings_GetLastAverageSyncTime stored procedure is invoked to get the most recent time that the average values of social ratings were synchronized from the social metadata store to the schemas of the corresponding list items in a **farm** specified by the @farmID parameter.

```sql
PROCEDURE proc_SocialRatings_GetLastAverageSyncTime (  @partitionID uniqueidentifier  ,@farmID uniqueidentifier  ,@lastSyncTime datetime OUTPUT  ,@lastAverageID bigint OUTPUT  ,@correlationId uniqueidentifier = null ) ;
```

**@partitionID**: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

**@farmID**: The identifier of the farm. The value MUST NOT be NULL.

**@lastSyncTime**: The most recent synchronization date and time in UTC format.

**@lastAverageID**: The identifier of the most recently synchronized social rating average.

**@correlationId**: The optional request identifier for the current request.
Return Values: An integer that MUST be zero.

Result Sets: MUST NOT return any result sets.

3.2.5.20 proc_SocialRatings_GetRatingsForUpdate

The proc_SocialRatings_GetRatingsForUpdate stored procedure is invoked to get a set of average values of social ratings. The result set MUST be in ascending order by last modified time and urlID.

PROCEDURE proc_SocialRatings_GetRatingsForUpdate (  
    @partitionID uniqueidentifier  
    ,@lastUpdateTime datetime  
    ,@lastAverageID bigint  
    ,@batchSize int  
    ,@correlationId uniqueidentifier = null  
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@lastUpdateTime: Date and time in UTC format used to filter the result set. Social rating averages modified at a time equal to this value are included in the result set only if their urlID is greater than the @lastAverageID parameter. Social rating averages modified at a time greater than this value are also included in the result set. The value MUST NOT be set to NULL.

@lastAverageID: Identifier of a social rating average used to filter the result set. Social rating averages included in the result set that were modified at a time equal to the @lastUpdateTime parameter MUST have an identifier greater than this value. The value MUST NOT be set to NULL.

@batchSize: The maximum number of items returned in the result set. If more results exist then they are discarded. The value MUST be greater than or equal to zero.

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

Return Values: An integer that MUST be zero.

Result Sets:

This stored procedure MUST return a proc_SocialRatings_GetRatingsForUpdate.ResultSet0

3.2.5.21 proc_SocialRatings_SetLastAverageSyncTime

The proc_SocialRatings_SetLastAverageSyncTime stored procedure is invoked to set the most recent time that the average values of social ratings were synchronized from the social metadata store to the schemas of the corresponding list items in a farm specified by the @farmID parameter.

PROCEDURE proc_SocialRatings_SetLastAverageSyncTime (  
    @partitionID uniqueidentifier  
    ,@farmID uniqueidentifier  
    ,@lastSyncTime datetime  
    ,@lastAverageID bigint  
    ,@correlationId uniqueidentifier = null  
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.
@farmID: The identifier of the farm. The value MUST NOT be set to NULL.

@lastSyncTime: The synchronization date and time in UTC format. The value MUST NOT be set to NULL.

@lastAverageID: Identifier of the most recently updated social rating average. The value MUST NOT be set to NULL.

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

Return Values: An integer that MUST be zero.

Result Sets:
For the following combination of parameters, this stored procedure MUST NOT return any result sets.

@partitionID: select partitionID FROM dbo.Tenants

For the following combination of parameters, this stored procedure MUST NOT return any result sets.

@partitionID: Select PartitionID from dbo.Tenants

@farmID: 1938ac99-18ea-4be6-93d1-d5f35315ba05

3.2.5.22 proc_SocialTags_Add

The proc_SocialTags_Add stored procedure is invoked to add a new social tag. If the social tag already exists, its last modified time, term label, isPrivate bit and title are updated as specified in the input parameters.

PROCEDURE proc_SocialTags_Add ( 
    @partitionID uniqueidentifier,
    @user_recordID bigint,
    @userID uniqueidentifier,
    @url nvarchar(2084),
    @termID uniqueidentifier,
    @inputTermLabel nvarchar(255),
    @title nvarchar(500) = null,
    @isPrivate bit,
    @lastModifiedTime datetime OUTPUT,
    @correlationId uniqueidentifier = null
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@user_recordID: The record identifier of the user profile associated with the social tag. The value MUST NOT be NULL.

@userID: The unique identifier of the user profile associated with the social tag. The value MUST NOT be NULL.

@url: The URI associated with the social tag. This parameter MUST be a valid URI.

@termID: The identifier of the term associated with the social tag. The value MUST NOT be NULL.
@inputTermLabel: The label of the term identified by @termID.

@title: The current title of the URI specified by @url.

@isPrivate: A bit specifying if the social tag is private or public. If the value is "1", the social tag is private. If the value is zero ("0"), the social tag is public. The value MUST NOT be NULL.

@lastModifiedTime: Output parameter indicating the date and time when the social tag was added in UTC format.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets: MUST NOT return any result sets.

3.2.5.23 proc_SocialTags_Count

The proc_SocialTags_Count stored procedure is invoked to count the number of social tags associated with a specific user profile or for a specific URI or for both.

PROCEDURE proc_SocialTags_Count ( @partitionID uniqueidentifier ,@user_recordID bigint = null ,@url nvarchar(2084) = null ,@includePrivate bit ,@count int OUTPUT ,@correlationId uniqueidentifier = null );

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@user_recordID: The record identifier of the user profile. If this value is NULL, every social tag associated with the URI specified by @url is included.

@url: The URI. If the value is NULL, every social tag associated with the user profile is included. If both @user_recordID and @url are NULL, the return value is "1", indicating input is not valid, and the output parameter @count is set to zero. If this parameter is not NULL, it MUST be a valid URI.

@includePrivate: A bit specifying whether to include private social tags. If the value is "1", private social tags are included. If the value is zero("0"), private social tags are not included. The value MUST NOT be NULL.

@count: An integer specifying the number of social tags corresponding to the input parameters.

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

Return Values: An integer that MUST be in the following table.
### Value

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

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

#### 3.2.5.24 proc_SocialTags_Delete

The **proc_SocialTags_Delete** stored procedure is invoked to delete a social tag associated with a specific user profile for a specific URI using a specific term.

```sql
PROCEDURE proc_SocialTags_Delete (  
    @partitionID uniqueidentifier  
  ,@user_recordID bigint  
  ,@url nvarchar(2084)  
  ,@termID uniqueidentifier = null  
  ,@correlationId uniqueidentifier = null  
);
```

- **@partitionID**: A GUID used to filter the current request. This value MUST NOT be NULL or empty.
- **@user_recordID**: The record identifier of the user profile. The value MUST NOT be NULL.
- **@url**: The URI. This parameter MUST be a valid URI.
- **@termID**: The identifier of the term. If the value is NULL, all social tags belonging to the user profile at the URI are deleted.
- **@correlationId**: The optional request identifier for the current request.

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

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

#### 3.2.5.25 proc_SocialTags_DeleteForUser

The **proc_SocialTags_DeleteForUser** stored procedure is invoked to delete all the social tags associated with a specific user profile for a specific URI.

```sql
PROCEDURE proc_SocialTags_DeleteForUser (  
    @partitionID uniqueidentifier  
  ,@user_recordID bigint  
  ,@url nvarchar(2084) = null  
  ,@correlationId uniqueidentifier = null  
);
```

- **@partitionID**: A GUID used to filter the current request. This value MUST NOT be NULL or empty.
@user_recordID: The record identifier of the user profile. The value MUST NOT be NULL.

@url: The URI. If this value is NULL, every social tag belonging to the user profile MUST be deleted. If this parameter is not NULL, it MUST be a valid URI.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets: MUST NOT return any result sets.

3.2.5.26 proc_SocialTags_GetForTerms

The proc_SocialTags_GetForTerms stored procedure is invoked to get the set of social tags associated with any term in a set of terms specified by the @termIDs parameter.

```sql
PROCEDURE proc_SocialTags_GetForTerms (
    @partitionID uniqueidentifier,
    @viewer_user_recordID bigint = null,
    @includePrivate bit = 0,
    @termIDs varchar(max),
    @top int = 1000,
    @correlationId uniqueidentifier = null
);
```

@partitionID: A GUID used to filter the current request. This value MUST NOT be null or empty.

@viewer_user_recordID: The record identifier of a user profile. If the value is NOT NULL then the result set MUST include private social tags that belong to the specified user profile. If the value is NULL, no additional private comments are included.

@includePrivate: A bit specifying if the result set is to include private social tags. If the value is 1, private social tags are included. If the value is 0, private social tags are not included, except for those identified by the @viewer_user_recordID parameter. The value MUST NOT be set to NULL.

@termIDs: The identifiers of the terms. The value must be a space delimited list of unique identifiers, for example: "GUID1 GUID2 GUID3".

@top: Specifies the maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by @top. This value MUST NOT be NULL or negative.

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

Return Values: An integer that MUST be 0.

Result Sets:

This stored procedure MUST return a proc_SocialTags_GetForTerms.ResultSet0
3.2.5.27 proc_SocialTags_GetForUrl

The proc_SocialTags_GetForUrl stored procedure is invoked to get the set of social tags for a specific URI.

```sql
PROCEDURE proc_SocialTags_GetForUrl (  @viewer_user_recordID bigint = null  , @includePrivate bit = 0  , @url nvarchar(2084) = null  , @partitionID uniqueidentifier  , @top int = 12  , @correlationId uniqueidentifier = null );
```

@viewer_user_recordID: The record identifier of a user profile. If the value is NOT NULL, the result set MUST include private social tags that belong to the specified user profile. If the value is NULL, no additional private comments are included.

@includePrivate: A bit specifying if the result set is to include private social tags. If the value is 1, private social tags are included. If the value is 0, private social tags are not included, except for those identified by the @viewer_user_recordID parameter. The value MUST NOT be set to NULL.

@url: The URI. This parameter MUST be a valid URI.

@partitionID: A GUID used to filter the current request. This value MUST NOT be null or empty.

@top: Specifies the maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by @top. This value MUST NOT be NULL, negative, or greater than 1000.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets:

This stored procedure MUST return a proc_SocialTags_GetForTerms.ResultSet0

3.2.5.28 proc_SocialTags_GetForUser

The proc_SocialTags_GetForUser stored procedure is invoked to get the set of social tags for a specific user profile.

```sql
PROCEDURE proc_SocialTags_GetForUser (  @partitionID uniqueidentifier  , @user_recordID bigint  , @top int = 1000  , @includePrivate bit  , @fromDate datetime = null  , @toDate datetime = null
);
```
@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@user_recordID: The record identifier of the user profile. The value MUST NOT be NULL.

@top: Specifies the maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by @top. This value MUST NOT be NULL or negative.

@includePrivate: A bit specifying if the result set is to include private social tags. If the value is "1", private social tags are included. If the value is zero ("0"), private social tags are not included. The value MUST NOT be NULL.

@fromDate: Date and time in UTC format used to filter the result set. If the value is not NULL, social tags included in the result set MUST have a last modified time greater than this value. If the value is NULL, the protocol server MUST NOT filter results based on last modified dates. If this value is NULL then @toDate MUST be set to NULL. If the value is not NULL then @toDate MUST NOT be NULL.

@toDate: Date and time in UTC format used to filter the result set. If the value is not NULL, social tags included in the result set MUST have a last modified time less than this value. If the value is NULL, the protocol server MUST NOT filter results based on last modified dates. If this value is NULL, @fromDate MUST be NULL. If the value is not NULL, @fromDate MUST NOT be NULL.

@termID: The identifier of the term. The value MUST NOT be NULL.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets:

This stored procedure MUST return a proc_SocialTags_GetForUser.ResultSet0

3.2.5.29 proc_SocialTags_GetTerms

The proc_SocialTags_GetTerms stored procedure is invoked to get the set of terms used by social tags.

PROCEDURE proc_SocialTags_GetTerms (
    @partitionID uniqueidentifier
    , @top int = 1000
    , @correlationId uniqueidentifier = null
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.
@top: Specifies the maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by @top. This value MUST NOT be NULL or negative.

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

Return Values: An integer that MUST be zero.

Result Sets:

This stored procedure MUST return a proc_SocialTags_GetTerms.ResultSet0

3.2.5.30 proc_SocialTags_GetTermsForUrl

The proc_SocialTags_GetTermsForUrl stored procedure is invoked to get the set of terms used by social tags for a specific URI.

PROCEDURE proc_SocialTags_GetTermsForUrl (  
@partitionID uniqueidentifier  
, @viewer_user_recordID bigint = null  
, @includePrivate bit = 0  
, @url nvarchar(2084)  
, @top int = 100  
, @correlationId uniqueidentifier = null  
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be null or empty.

@viewer_user_recordID: The record identifier of a user profile. If the value is NOT NULL, the result set MUST include private social tags that belong to the specified user profile. If the value is NULL, no additional private comments are included.

@includePrivate: A bit specifying if the result set is to include private social tags. If the value is 1, private social tags are included. If the value is 0, private social tags are not included, except for those identified by the @viewer_user_recordID parameter. The value MUST NOT be set to NULL.

@url: The URI. This parameter MUST be a valid URI.

@top: Specifies the maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by @top. This value MUST NOT be NULL, negative, or greater than 1000.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets:

This stored procedure MUST return a proc_SocialTags_GetTermsForUrl.Default.ResultSet0 upon successful completion. In case of error it MUST NOT return any result set.
3.2.5.31 proc_SocialTags_GetTermsForUser

The proc_SocialTags_GetTermsForUser stored procedure is invoked to get the set of terms used by social tags for a specific user profile.

```
PROCEDURE proc_SocialTags_GetTermsForUser (  
    @partitionID uniqueidentifier  
    ,@user_recordID bigint  
    ,@includePrivate bit  
    ,@top int = 1000  
    ,@correlationId uniqueidentifier = null  
);
```

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@user_recordID: The identifier of the user profile. The value MUST NOT be NULL.

@includePrivate: A bit specifying if the result set is to include private social tags. If the value is "1", private social tags are included. If the value is zero ("0"), private social tags are not included. The value MUST NOT be NULL.

@top: Specifies the maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by @top. This value MUST NOT be NULL, negative, or greater than 3000.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets:

This stored procedure MUST return a proc_SocialTags_GetTermsForUser.proc_SocialTags_GetTermsForUser.Default.ResultSet0

For the following combination of parameters:

- @partitionID: Select PartitionID from Tenants.
- @user_recordID: Select User_RecordID from UserProfile_Vалиdation.
- @url: Select Uri from Uris.

If the @URI parameter's value is a valid URI with one or more social tags, this stored procedure MUST return a proc_SocialTags_GetTermsForUser.ResultSet0 upon successful completion.

If the @URI parameter's value is not a valid URI OR a valid URI without any social tags, this stored procedure MUST NOT return a result set.
3.2.5.32 proc_SocialTags_GetUrlsForTerm

The **proc_SocialTags_GetUrlsForTerm** stored procedure is invoked to get the set of URIs associated with social tags having a specified term and user profile combination. The term is specified using the `@termID` parameter. The user profile is specified using the `@user_recordID` parameter.

```sql
PROCEDURE proc_SocialTags_GetUrlsForTerm (
    @partitionID uniqueidentifier ,
    @termID uniqueidentifier ,
    @user_recordID bigint ,
    @includePrivate bit = 0 ,
    @top int = 400 ,
    @correlationId uniqueidentifier = null
);
```

- **@partitionID**: A GUID used to filter the current request. This value MUST NOT be NULL or empty.
- **@termID**: The identifier of the term. The value MUST NOT be NULL.
- **@user_recordID**: The unique identifier of the user profile. The value MUST NOT be NULL.
- **@includePrivate**: A bit specifying if the result set is to include private social tags. If the value is "1", private social tags are included. If the value is zero ("0"), private social tags are not included. The value MUST NOT be NULL.
- **@top**: Specifies the maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by `@top`. This value MUST NOT be NULL, negative, or greater than 2000.
- **@correlationId**: The optional request identifier for the current request.

**Return Values**: An integer that MUST be zero.

**Result Sets**:

This stored procedure MUST return a `proc_SocialTags_GetUrlsForTerm.ResultSet0`

3.2.5.33 proc_SocialTags_Update

The **proc_SocialTags_Update** stored procedure is invoked to update an existing social tag. The social tag is identified by its URI specified by the `@url` parameter, its term specified by the `@termID` parameter and its user profile specified by the `@user_recordID` parameter.

```sql
PROCEDURE proc_SocialTags_Update (
    @partitionID uniqueidentifier ,
    @user_recordID bigint ,
    @url nvarchar(2084) ,
    @termID uniqueidentifier ,
    @title nvarchar(500) = null ,
    @isPrivate bit ,
    @lastModifiedTime datetime OUTPUT ,
    @correlationId uniqueidentifier = null
);
```

- **@partitionID**: A GUID used to filter the current request. This value MUST NOT be NULL or empty.
@user_recordID: The record identifier of the user profile associated with the social tag. The value MUST NOT be NULL.

@url: The URI associated with the social tag. This parameter MUST be a valid URI.

@termID: The identifier of the term used by the social tag. The value MUST NOT be NULL.

@title: The new title of the social tag. If the value is NULL, the title is not updated.

@isPrivate: A bit specifying if the social tag is private or public. If the value is "1", the social tag is private. If the value is zero ("0"), the social tag is public. The social tag is updated with this value. The value MUST NOT be NULL.

@lastModifiedTime: Output parameter indicating the date and time when the social tag was updated in UTC format.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets: MUST NOT return any result sets.

3.2.5.34 proc_Social_GetUsers

The proc_Social_GetUsers stored procedure is called to retrieve the list of user profiles that have stored social data.

PROCEDURE proc_Social_GetUsers (  
    @partitionID uniqueidentifier ,  
    @top int = 1000  
    ,@correlationId uniqueidentifier = null  
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@top: Specifies the maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by @top. This value MUST NOT be NULL or negative.

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

Return Values: An integer that MUST be zero.

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

3.2.5.35 proc_SocialComments_GetByTime

The proc_SocialComments_GetByTime stored procedure is called to retrieve social comments made during a specific period of time.
PROCEDURE proc_SocialComments_GetByTime (
    @partitionID uniqueidentifier,
    @startTime datetime,
    @endTime datetime,
    @max int = 1000,
    @correlationId uniqueidentifier = null
);  

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.  
@startTime: A timestamp in UTC format specifying the starting range, exclusive, for the modified date of the comments included in the result set.  
@endTime: A timestamp in UTC format specifying the ending range, inclusive, for the modified date of the comments included in the result set.  
@max: The maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by @max. This parameter MUST be greater than or equal to zero.  
@correlationId: The optional request identifier for the current request.  
Return Values: An integer that MUST be zero.  
Result Sets:  
This stored procedure MUST return a proc_SocialComments_GetForUrlBase.ResultSet0  

3.2.5.36 proc_SocialComments_GetDeletes  
The proc_SocialComments_GetDeletes stored procedure is called to retrieve social comments deleted during a specific period of time.  

PROCEDURE proc_SocialComments_GetDeletes (
    @partitionID uniqueidentifier,
    @startTime datetime,
    @endTime datetime,
    @correlationId uniqueidentifier = null
);  

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.  
@startTime: A timestamp in UTC format specifying the starting range, inclusive, for the modified date of the comments included in the result set.  
@endTime: A timestamp in UTC format specifying the ending range, exclusive, for the modified date of the comments included in the result set.  
@correlationId: The optional request identifier for the current request.  
Return Values: An integer that MUST be zero.  
Result Sets:  
This stored procedure MUST return a proc_SocialComments_GetDeletes.ResultSet0
3.2.5.37 proc_SocialComments_GetForReplicationByTime

The proc_SocialComments_GetForReplicationByTime stored procedure is called to retrieve social comments made during a specific period of time.

```
PROCEDURE proc_SocialComments_GetForReplicationByTime (
    @partitionID uniqueidentifier,
    @startTime datetime,
    @endTime datetime,
    @correlationId uniqueidentifier = null
);
```

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@startTime: A timestamp in UTC format specifying the starting range, inclusive, for the modified date of the comments included in the result set.

@endTime: A timestamp in UTC format specifying the ending range, exclusive, for the modified date of the comments included in the result set.

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

Return Values: An integer that MUST be zero.

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

3.2.5.38 proc_SocialComments_GetForReplicationByUser

The proc_SocialComments_GetForReplicationByUser stored procedure is called to retrieve social comments made by a specific user profile.

```
PROCEDURE proc_SocialComments_GetForReplicationByUser (
    @partitionID uniqueidentifier,
    @user_RecordID int,
    @correlationId uniqueidentifier = null
);
```

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@user_RecordID: A record identifier of the user profile associated with the social comment. This parameter MUST NOT be NULL.

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

Return Values: An integer that MUST be zero.

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

3.2.5.39 proc_SocialComments_GetForUrlByTime

The proc_SocialComments_GetForUrlByTime stored procedure is called to retrieve social comments for a specific URL made by a specific user profile.
PROCEDURE proc_SocialComments_GetForUrlByTime (  
@url nvarchar(2084)  
,@partitionID uniqueidentifier  
,@user_recordID bigint = null  
,@fromDate datetime = null  
,@toDate datetime = null  
,@top int = 100  
,@correlationId uniqueidentifier = null  
);  

@url: A string specifying the URI for which social comments have to be retrieved. This parameter MUST be a valid URI.

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@user_recordID: A record identifier of the user profile associated with the social comment. This parameter MUST NOT be NULL.

@fromDate: A timestamp in UTC format specifying the starting range, inclusive, for the modified date of the comments included in the result set.

@toDate: A timestamp in UTC format specifying the ending range, exclusive, for the modified date of the comments included in the result set.

@top: Specifies the maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by @top. This value MUST NOT be NULL, negative, or greater than 100.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets:
For the following combination of parameters:
- @url: Select Url from Urls.
- @partitionID: Select PartitionID from Tenants.

This stored procedure MUST return a proc_SocialComments_GetForUrlBase.ResultSet0

3.2.5.40 proc_SocialComments_ReplicateForDelete

The proc_SocialComments_ReplicateForDelete stored procedure is called to update a social comment with a deletion time.

PROCEDURE proc_SocialComments_ReplicateForDelete (  
@partitionID uniqueidentifier  
,@user_recordID bigint  
) ;
@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@user_recordID: A record identifier of the user profile associated with the social comments. This parameter MUST NOT be NULL.

@url: A string specifying the URI for which social comments have to be retrieved. This parameter MUST be a valid URI.

@lastModifiedTime: A timestamp in UTC format specifying the time when the social comment was last modified.

@deletedTime: A timestamp in UTC format specifying the time when the social comment was deleted.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets: MUST NOT return any result sets.

### 3.2.5.41 proc_SocialComments_ReplicateForLive

The proc_SocialComments_ReplicateForLive stored procedure is called to add or update a social comment that has not been deleted.

```sql
PROCEDURE proc_SocialComments_ReplicateForLive
    @partitionID uniqueidentifier,
    @user_recordID bigint,
    @userID uniqueidentifier,
    @url nvarchar(2084),
    @comment nvarchar(4000),
    @isHighPriority bit,
    @title nvarchar(500) = null,
    @lastModifiedTime datetime,
    @correlationId uniqueidentifier = null
);
```

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@user_recordID: A record identifier of the user profile associated with the social comment. This parameter MUST NOT be NULL.
@userID: A record identifier of the user profile associated with the social comment. This parameter MUST NOT be NULL.

@url: A string specifying the URI for which social comments have to be retrieved. This parameter MUST be a valid URI.

@comment: The content of the social comment. This parameter MUST NOT be NULL or empty.

@isHighPriority: A bit flag specifying the priority of the social comment. If the parameter is "1", priority MUST be considered as high. If the parameter is zero ("0"), priority MUST be considered as normal. This parameter MUST NOT be NULL.

@title: The title of the URI specified by @url at the time of the update.

@lastModifiedTime: A timestamp in UTC format specifying the time when the social comment was last modified.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets: MUST NOT return any result sets.

3.2.5.42 proc_SocialRatings_RefreshAverages

The proc_SocialRatings_RefreshAverages stored procedure is invoked to ensure the protocol server has updated the social rating averages.

PROCEDURE proc_SocialRatings_RefreshAverages (  
@partitionID uniqueidentifier  
,@lastRunTime datetime  
,@currentRefreshTime datetime = null OUTPUT  
,@correlationId uniqueidentifier = null  
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@lastRunTime: A timestamp in UTC format specifying the time when the social rating averages were last refreshed.

@currentRefreshTime: A timestamp in UTC format specifying the current time. The protocol server MUST set this value with the current time. The protocol server SHOULD compute social rating averages to this point in time.

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

Return Values: An integer that MUST be zero.

Result Sets: MUST NOT return any result sets.
3.2.5.43 proc_SocialTags_GetUsersForTerm

The proc_SocialTags_GetUsersForTerm stored procedure is invoked to get the set of user profiles using a specific term. The term is specified using the @termID parameter. The protocol server MUST sort rows in descending order by the last modified date of the corresponding social tags.

```
PROCEDURE proc_SocialTags_GetUsersForTerm (  
@termID uniqueidentifier  
,@viewer_user_recordID bigint = null  
,@includePrivate bit = 0  
,@partitionID uniqueidentifier  
,@url nvarchar(2084) = null  
,@top int = 1000  
,@correlationId uniqueidentifier = null
);
```

@termID: The identifier of the term. The value MUST NOT be NULL.

@viewer_user_recordID: The record identifier of a user profile. If the value is not NULL, the result set MUST include private social tags that belong to the specified user profile. If the value is NULL, no additional private comments are included.

@includePrivate: A bit specifying if the result set is to include private social tags. If the value is "1", private social tags are included. If the value is zero ("0"), private social tags are not included, except for those identified by the @viewer_user_recordID parameter. The value MUST NOT be NULL.

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@url: The URI. This parameter MUST be a valid URI.

@top: Specifies the maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by @top. This value MUST NOT be NULL or negative.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

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

3.2.5.44 proc_SocialTags_MergeTerms

The proc_SocialTags_MergeTerms stored procedure is invoked to combine the set of user profiles using a specific term. The term is specified using the @termID parameter.

```
PROCEDURE proc_SocialTags_MergeTerms (  
@partitionID uniqueidentifier
)
```
@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@mergedTerms: A list of similar terms. This value MUST conform to the term XML schema.

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

@numDeleted: A non-negative integer representing the number of deleted terms MUST be returned.

@numUpdated: A non-negative integer representing the number of updated terms MUST be returned.

Return Values: An integer that MUST be zero.

Result Sets: MUST NOT return any result sets.

3.2.5.45 proc_SocialTags_RefreshTagClouds

The proc_SocialTags_RefreshTagClouds stored procedure is called to refresh the social tag clouds.

PROCEDURE proc_SocialTags_RefreshTagClouds (  
@partitionID uniqueidentifier  
,@lastRunTime datetime  
,@currentRefreshTime datetime = null OUTPUT  
,@correlationId uniqueidentifier = null
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@lastRunTime: A timestamp in UTC format specifying the time when the social tag clouds were last refreshed. The protocol client MUST set this value to a time prior to the current time. The protocol server SHOULD compute social tag clouds using social tag data more recent than this value.

@currentRefreshTime: A timestamp in UTC format specifying the current time. The protocol server MUST set this value with the current time. The protocol server SHOULD compute social tag clouds to this point in time.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>getutcdate</td>
<td>The timestamp when the change was made in UTC format.</td>
</tr>
</tbody>
</table>

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

Return Values: An integer that MUST be zero.

Result Sets: MUST NOT return any result sets.
3.2.5.46  proc_SocialTags_ReplicateForDelete

The **proc_SocialTags_ReplicateForDelete** stored procedure is called to update a social tag with a deletion time.

```sql
PROCEDURE proc_SocialTags_ReplicateForDelete (
    @partitionID uniqueidentifier,
    @user_recordID bigint,
    @url nvarchar(2084),
    @termID uniqueidentifier,
    @deletedTime datetime,
    @correlationId uniqueidentifier = null
);
```

**@partitionID:** A GUID used to filter the current request. This value MUST NOT be NULL or empty.

**@user_recordID:** The record identifier of the user profile associated with the social tag. The value MUST NOT be NULL.

**@url:** The URI associated with the social tag. This parameter MUST be a valid URI.

**@termID:** The identifier of the term associated with the social tag. The value MUST NOT be NULL.

**@deletedTime:** The timestamp in UTC format when the social tag was deleted. This value MUST NOT be NULL.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

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

3.2.5.47  proc_SocialRatings_ReplicateForLive

The **proc_SocialRatings_ReplicateForLive** stored procedure is called to add or update a social rating that has not been deleted.

```sql
PROCEDURE proc_SocialRatings_ReplicateForLive (
    @partitionID uniqueidentifier,
    @user_recordID bigint,
    @userID uniqueidentifier,
    @url nvarchar(2084),
    @rating int,
    @lastModifiedTime datetime,
    @correlationId uniqueidentifier = null
);
```

**@partitionID:** A GUID used to filter the current request. This value MUST NOT be NULL or empty.
@user_recordID: The record identifier of the user profile associated with the social rating. The value MUST NOT be NULL.

@userID: The unique identifier of the user profile associated with the social rating. The value MUST NOT be NULL.

@url: The URI associated with the social tag. This parameter MUST be a valid URI.

@rating: An integer value indicating the user’s social rating of the URI specified by @url. This parameter MUST be greater than or equal to zero and less than or equal to 100. This parameter MUST NOT be NULL.

@lastModifiedTime: A timestamp in UTC format specifying the time when the social comment was last modified.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error..</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets: MUST NOT return any result sets.

3.2.5.48 proc_SocialTags_ReplicateForLive

The proc_SocialTags_ReplicateForLive stored procedure is called to add or update a term that has not been deleted.

PROCEDURE proc_SocialTags_ReplicateForLive ( @partitionID uniqueidentifier , @user_recordID bigint , @userID uniqueidentifier , @url nvarchar(2084) , @termID uniqueidentifier , @inputTermLabel nvarchar(255) , @title nvarchar(500) = null , @isPrivate bit , @lastModifiedTime datetime , @correlationID uniqueidentifier = null );

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@user_recordID: The record identifier of the user profile associated with the social tag. The value MUST NOT be NULL.

@userID: The unique identifier of the user profile associated with the social tag. The value MUST NOT be NULL.

@url: The URI associated with the social tag. This parameter MUST be a valid URI.

@termID: The identifier of the term associated with the social tag. The value MUST NOT be NULL.
@inputTermLabel: The string representation of the input term in the user’s locale at the time of input.

@title: The title of the URI specified by @url at the time of the update. This value MUST NOT be NULL.

@isPrivate: A bit specifying if the social tag is private or public. If the value is "1", the social tag is private. If the value is zero ("0"), the social tag is public. The value MUST NOT be NULL.

@lastModifiedTime: A timestamp in UTC format specifying the time when the social comment was last modified.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets: MUST NOT return any result sets.

3.2.5.49 proc_SocialTags_GetByTime

The proc_SocialTags_GetByTime stored procedure is invoked to get the set of terms used by social tags within a specified period of time.

PROCEDURE proc_SocialTags_GetByTime (
  @partitionID uniqueidentifier,
  @startTime datetime,
  @endTime datetime,
  @max int = 1000,
  @skip int = 0,
  @includePrivate bit = 0,
  @correlationId uniqueidentifier = null
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@startTime: A timestamp in UTC format specifying the starting range, exclusive, for the modified date of the comments included in the result set.

@endTime: A timestamp in UTC format specifying the ending range, inclusive, for the modified date of the comments included in the result set.

@max: Specifies the maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by @max. If NULL, greater than 1000, or unspecified, the protocol server MUST return a maximum of 1000 rows. Otherwise, this parameter MUST be a non-negative integer.

@skip: Specifies the number of rows matching the criteria specified by the other input parameters that MUST be omitted from the result set.
@includePrivate: A bit specifying if the result set is to include private social tags. If the value is "1", private social tags are included. If the value is zero("0"), private social tags are not included. The value MUST NOT be NULL.

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

Return Values: An integer that MUST be zero.

Result Sets:

This stored procedure MUST return a proc_SocialTags_GetByTime.ResultSet0

3.2.5.50 proc_SocialTags_GetChangedUsers

The proc_SocialTags_GetTerms stored procedure is invoked to get the set of user record identifiers identifying user profiles that have been changed since @lastFetchedTime.

PROCEDURE proc_SocialTags_GetChangedUsers (  
  @partitionID uniqueidentifier  
  ,@lastFetchedTime datetime  
  ,@currentFetchedTime datetime = null OUTPUT  
  ,@correlationId uniqueidentifier = null  
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@lastFetchedTime: The UTC time when changed user profiles were last fetched.

@currentFetchedTime: The current UTC time.

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

Return Values: An integer that MUST be zero.

Result Sets:

This stored procedure MUST return a proc_SocialTags_GetChangedUsers.ResultSet0

3.2.5.51 proc_SocialTags_GetDeletes

The proc_SocialTags_GetDeletes stored procedure is invoked to get the set of terms that were deleted during the specified period of time.

PROCEDURE proc_SocialTags_GetDeletes (  
  @partitionID uniqueidentifier  
  ,@startTime datetime  
  ,@endTime datetime  
  ,@correlationId uniqueidentifier = null  
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@startTime: A timestamp in UTC format specifying the starting range (inclusive) for the modified date of the comments included in the result set.
@endTime: A timestamp in UTC format specifying the ending range (exclusive) for the modified date of the comments included in the result set.

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

Return Values: An integer that MUST be 0.

Result Sets:

This stored procedure MUST return a proc_SocialTags_GetDeletes.ResultSet0

3.2.5.52 proc_SocialTags_GetForReplicationByTime

The proc_SocialTags_GetForReplicationByTime stored procedure is invoked to get the set of terms changes made during the specified period of time.

PROCEDURE proc_SocialTags_GetForReplicationByTime (  
    @partitionID uniqueidentifier  
    ,@startTime datetime  
    ,@endTime datetime  
    ,@correlationId uniqueidentifier = null  
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@startTime: A timestamp in UTC format specifying the starting range, inclusive, for the modified date of the comments included in the result set.

@endTime: A timestamp in UTC format specifying the ending range, exclusive, for the modified date of the comments included in the result set.

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

Return Values: An integer that MUST be zero.

Result Sets:

This stored procedure MUST return a proc_SocialTags_GetForReplicationByTime.ResultSet0

3.2.5.53 proc_SocialTags_GetForReplicationByUser

The proc_SocialTags_GetForReplicationByUser stored procedure is invoked to get the set of term changes made by a specific social profile.

PROCEDURE proc_SocialTags_GetForReplicationByUser (  
    @partitionID uniqueidentifier  
    ,@user_RecordID int  
    ,@correlationId uniqueidentifier = null  
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@user_RecordID: A record identifier of the user profile associated with the social comment. This parameter MUST NOT be NULL.

@correlationId: The optional request identifier for the current request.
Return Values: An integer that MUST be zero.

Result Sets:

This stored procedure MUST return a proc_SocialTags_GetForReplicationByUser.ResultSet0

3.2.5.54 proc_SocialTags_GetForUrlByUser

The proc_SocialTags_GetForUrlByUser stored procedure is invoked to get the set of terms used by a specific social profile on a specific URI.

```sql
PROCEDURE proc_SocialTags_GetForUrlByUser (
    @partitionID uniqueidentifier,
    @user_recordID bigint,
    @url nvarchar(2084),
    @includePrivate bit,
    @top int = 1000,
    @correlationId uniqueidentifier = null
);
```

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@user_recordID: The record identifier of the user profile associated with the social tag. The value MUST NOT be NULL.

@url: The URI associated with the social tag. This parameter MUST be a valid URI.

@includePrivate: A bit specifying if the result set is to include private social tags. If the value is "1", private social tags are included. If the value is zero ("0"), private social tags are not included. The value MUST NOT be NULL.

@top: Specifies the maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by @top. This value MUST NOT be NULL, negative, or greater than 3000.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets:

For the following combination of parameters:

- @partitionID: 0c37852b-34d0-418e-91c6-2ac25af4be5b
- @user_recordID: 102
- @url: Select Url from Urls.

This stored procedure MUST return a proc_SocialTags_GetTermsForUser.ResultSet0
3.2.5.55 proc_SocialTags_GetForUrlByTime

The proc_SocialTags_GetForUrlByTime stored procedure is invoked to get the set of terms associated with a specific URI during a specified period of time.

```sql
PROCEDURE proc_SocialTags_GetForUrlByTime (
    @url nvarchar(2084)
   ,@partitionID uniqueidentifier
   ,@user_recordID bigint = null
   ,@fromDate datetime = null
   ,@toDate datetime = null
   ,@top int = 100
   ,@correlationId uniqueidentifier = null
);
```

@url: The URI associated with the social tag. This parameter MUST be a valid URI.

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@user_recordID: The record identifier of the user profile associated with the social tag. The value MUST NOT be NULL.

@fromDate: A timestamp in UTC format specifying the starting range, inclusive, for the modified date of the comments included in the result set. If this parameter is NULL, it MUST be ignored.

@toDate: A timestamp in UTC format specifying the ending range, exclusive, for the modified date of the comments included in the result set. If this parameter is NULL, it MUST be ignored.

@top: Specifies the maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by @top. This value MUST NOT be NULL, negative, or greater than 100.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

Result Sets: MUST NOT return any result sets.

3.2.5.56 proc_SocialTags_GetTermsForUrlBase

The proc_SocialTags_GetTermsForUrlBase stored procedure is invoked to get the set of terms associated with a specific base URI.

```sql
PROCEDURE proc_SocialTags_GetTermsForUrlBase (
   @partitionID uniqueidentifier
   ,@url nvarchar(2084)
   ,@top int = 1000
   ,@correlationId uniqueidentifier = null
);
```
@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@url: The URI associated with the base URI. This parameter MUST be a valid URI.

@top: Specifies the maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by @top. This value MUST NOT be NULL, negative, or greater than 3000.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

**Result Sets:**

For the following combination of parameters:

- @partitionID: 0c37852b-34d0-418e-91c6-2ac25af4be5b
- @url: Select Url from Urls.

This stored procedure MUST return a proc_SocialTags_GetTerms.ResultSet0

### 3.2.5.57 proc_SocialTags_GetUrlCountsForTerm

The **proc_SocialTags_GetUrlCountsForTerm** stored procedure is invoked to get the number of unique URIs that are associated with the specified term.

```sql
PROCEDURE proc_SocialTags_GetUrlCountsForTerm (  
  @partitionID uniqueidentifier  
  ,@viewer_user_recordID bigint = null  
  ,@includePrivate bit = 0  
  ,@termID uniqueidentifier  
  ,@from datetime = null  
  ,@correlationId uniqueidentifier = null  
  ,@top int = 1000  
);
```

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@viewer_user_recordID: The record identifier of a user profile. If the value is not NULL, the result set MUST include private social tags that belong to the specified user profile. If the value is NULL, no additional private comments are included.

@includePrivate: A bit specifying if the result set is to include private social tags. If the value is "1", private social tags are included. If the value is zero ("0"), private social tags are not included, except for those identified by the @viewer_user_recordID parameter. The value MUST NOT be NULL.

@termID: The identifier of the terms. This value MUST NOT be NULL.
@from: Date and time in UTC format used to filter the result set. If the value is not NULL, URIs included in the result set MUST be associated with social tags with a last modified time greater than or equal to this value. If the value is NULL, there is no restriction on the last modified time.

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

@top: Specifies the maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by @top. This value MUST NOT be NULL or negative.

Return Values: An integer that MUST be zero.

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

3.2.5.58 proc_SocialRatings_GetByTime

The proc_SocialRatings_GetByTime stored procedure is called to retrieve the social ratings made during a specified period of time.

PROCEDURE proc_SocialRatings_GetByTime (  
@partitionID uniqueidentifier  ,@startTime datetime  ,@endTime datetime  ,@max int = 1000  ,@skip int = 0  ,@correlationId uniqueidentifier = null );

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@startTime: A timestamp in UTC format specifying the starting range, exclusive, for the modified date of the social ratings included in the result set.

@endTime: A timestamp in UTC format specifying the ending range, inclusive, for the modified date of the social ratings included in the result set.

@max: Specifies the maximum size, in rows, requested for the result set. The result set MUST NOT contain more rows than specified by @max. If NULL, greater than 2000, or unspecified, the protocol server MUST return a maximum of 2000 rows. Otherwise, this parameter MUST be a non-negative integer.

@skip: Specifies the number of rows matching the criteria specified by the other input parameters that MUST be omitted from the result set.

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

Return Values: An integer that MUST be zero.

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

3.2.5.59 proc_SocialRatings_GetDeletes

The proc_SocialRatings_GetDeletes stored procedure is called to retrieve the social ratings that were deleted during a specified period of time.

Preliminary
PROCEDURE proc_SocialRatings_GetDeletes (
    @partitionID uniqueidentifier,
    @startTime datetime,
    @endTime datetime,
    @correlationId uniqueidentifier = null
);  

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.  

@startTime: A timestamp in UTC format specifying the starting range, inclusive, for the modified date of the social ratings included in the result set.  

@endTime: A timestamp in UTC format specifying the ending range, exclusive, for the modified date of the social ratings included in the result set.  

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

Return Values: An integer that MUST be zero.  

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

3.2.5.60 proc_SocialRatings_GetForReplicationByTime  

The proc_SocialRatings_Get stored procedure is called to retrieve the social ratings that were last modified during a specified time period.  

PROCEDURE proc_SocialRatings_GetForReplicationByTime (
    @partitionID uniqueidentifier,
    @startTime datetime,
    @endTime datetime,
    @correlationId uniqueidentifier = null
);  

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.  

@startTime: A timestamp in UTC format specifying the starting range, inclusive, for the modified date of the social ratings included in the result set.  

@endTime: A timestamp in UTC format specifying the ending range, exclusive, for the modified date of the social ratings included in the result set.  

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

Return Values: An integer that MUST be zero.  

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

3.2.5.61 proc_SocialRatings_GetForReplicationByUser  

The proc_SocialRatings_GetForReplicationByUser stored procedure is called to retrieve the social ratings given by a specified user profile.
PROCEDURE proc_SocialRatings_GetForReplicationByUser (  
@partitionID uniqueidentifier  
,@user_RecordID int  
,@correlationId uniqueidentifier = null  
);  

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.  

@user_RecordID: A record identifier of the user profile associated with the social rating. This parameter MUST NOT be NULL.  

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

Return Values: An integer that MUST be zero.  

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

3.2.5.62 proc_SocialRatings_ReplicateForDelete  

The proc_SocialRatings_ReplicateForDelete stored procedure is called to delete a social rating with a specified deletion time. This stored procedure is expected to be called only when the social rating data is replicated from one protocol server to another protocol server.  

PROCEDURE proc_SocialRatings_ReplicateForDelete (  
@partitionID uniqueidentifier  
,@user_recordID bigint  
,@url nvarchar(2084)  
,@deletedTime datetime  
,@correlationId uniqueidentifier = null  
);  

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.  

@user_recordID: A record identifier of the user profile associated with the social rating. This parameter MUST NOT be NULL.  

@url: A string specifying the URI for which the social rating has to be deleted. This parameter MUST be a valid URI.  

@deletedTime: Specifies a timestamp in UTC format when the social rating was deleted. This value MUST NOT be NULL. The social rating that is to be deleted MUST have a last modified time less than @deletedTime.  

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Failure: Invalid input or internal error.</td>
</tr>
<tr>
<td>0</td>
<td>Successful execution.</td>
</tr>
</tbody>
</table>

[MS-UPSSDSP2] — v20120630  
User Profile Social Data Stored Procedures Version 2 Protocol Specification  
Copyright © 2012 Microsoft Corporation.  
Release: July 16, 2012
**Result Sets:** MUST NOT return any result sets.

### 3.2.5.63 proc_Admin_RemoveSocialItems

The **proc_Admin_RemoveSocialItems** stored procedure is called to delete old social tags, social comments, and social ratings.

```sql
PROCEDURE proc_Admin_RemoveSocialItems (  
    @EndDate datetime, 
    @PartitionID uniqueidentifier = null, 
    @RemoveTags bit = 0, 
    @RemoveComments bit = 0, 
    @RemoveRatings bit = 0, 
    @NumTagsRemoved int = null OUTPUT, 
    @NumCommentsRemoved int = null OUTPUT, 
    @NumRatingsRemoved int = null OUTPUT, 
    @NumUrlsRemoved int = null OUTPUT, 
    @CorrelationID uniqueidentifier = null );
```

**@EndDate:** Specifies a timestamp in UTC format. Specified social data that was last modified prior to **@EndDate** MUST be deleted.

**@PartitionID:** A GUID used to filter the current request. If specified, the protocol server MUST delete social data only from the specified partition. If NULL, the protocol server MUST delete social data from all partitions.

**@RemoveTags:** A bit specifying if relevant social tags MUST be deleted. If the value is 1, relevant social tags MUST be deleted. If the value is 0, the protocol server MUST NOT delete social tags. The value MUST NOT be set to NULL.

**@RemoveComments:** A bit specifying if relevant social comments MUST be deleted. If the value is 1, relevant social comments MUST be deleted. If the value is 0, the protocol server MUST NOT delete social tags. The value MUST NOT be set to NULL.

**@RemoveRatings:** A bit specifying if relevant social ratings MUST be deleted. If the value is 1, relevant social ratings MUST be deleted. If the value is 0, the protocol server MUST NOT delete social tags. The value MUST NOT be set to NULL.

**@NumTagsRemoved:** The protocol server MUST return the number of social tags that were deleted.

**@NumCommentsRemoved:** The protocol server MUST return the number of social comments that were deleted.

**@NumRatingsRemoved:** The protocol server MUST return the number of social ratings that were deleted.

**@NumUrlsRemoved:** The protocol server MUST return the number of URIs that are no longer being referenced by social data.

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

**Return Values:** An integer that MUST be 0.

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

The `proc_Admin_CompactChangeLogs` stored procedure is called to perform periodic maintenance on the protocol server's change log.

```sql
PROCEDURE proc_Admin_CompactChangeLogs (
    @partitionID uniqueidentifier,
    @correlationId uniqueidentifier = null
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.
@correlationId: The optional request identifier for the current request.

Return Values: An integer that MUST be zero.
Result Sets: MUST NOT return any result sets.
```

3.2.5.65 proc_SocialData_BulkDeleteForUser

The `proc_SocialData_BulkDeleteForUser` stored procedure is called to delete all social data for a specific user.

```sql
PROCEDURE proc_SocialData_BulkDeleteForUser (
    @partitionID uniqueidentifier,
    @user_recordID bigint,
    @correlationId uniqueidentifier = null
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.
@user_recordID: A record identifier of the user profile associated with the social data. This parameter MUST NOT be NULL.
@correlationId: The optional request identifier for the current request.

Return Values: An integer that MUST be zero.
Result Sets: MUST NOT return any result sets.
```

3.2.5.66 proc_Social_SetSecurityTrimmerEnabled

The `proc_Social_SetSecurityTrimmerEnabled` stored procedure is called to update a setting indicating whether security trimming heuristics are enabled.

```sql
PROCEDURE proc_Social_SetSecurityTrimmerEnabled (
    @partitionID uniqueidentifier,
    @securityTrimmerEnabled bit,
    @correlationId uniqueidentifier = null
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.
@securityTrimmerEnabled: A bit specifying whether the security trimming heuristics are enabled. If the value is "1", the security trimming heuristics MUST be enabled for all social data. If the value is zero ("0"), the security trimming heuristics MUST be disabled for all social data. If the value is NULL, the security trimming heuristics MUST be applied for all social data whose URL values match the result set returned by the proc_Social_GetSecurityTrimUrls stored procedure.

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

Return Values: An integer that MUST be zero.

Result Sets: MUST NOT return any result sets.

3.2.5.67 proc_Social_RemoveSecurityTrimUrl

The proc_Social_RemoveSecurityTrimUrl stored procedure is called to remove a URI from the set of URIs associated with the security trimming heuristics.

PROCEDURE proc_Social_RemoveSecurityTrimUrl (  
  @partitionID uniqueidentifier  
  ,@url nvarchar(2084)  
  ,@alwaysAllow bit  
  ,@correlationId uniqueidentifier = null
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@url: The URI to be removed from the set of URIs associated with the security trimming heuristics.

@alwaysAllow: A bit specifying whether the URI is to be removed from the always allowed set. If the value is "1", the URI MUST be removed from the always allowed set. If the value is zero ("0"), the URI MUST be removed from the always security trim set. The value MUST NOT be NULL.

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

Return Values: An integer that MUST be zero.

Result Sets: MUST NOT return any result sets.

3.2.5.68 proc_Social_GetSecurityTrimUrls

The proc_Social_GetSecurityTrimUrls stored procedure is called to retrieve the set of URIs associated with the security trimming heuristics.

PROCEDURE proc_Social_GetSecurityTrimUrls (  
  @partitionID uniqueidentifier  
  ,@correlationId uniqueidentifier = null
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

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

Return Values: An integer that MUST be zero.

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

3.2.5.69 proc_Social_GetSecurityTrimmerEnabled

The proc_Social_GetSecurityTrimmerEnabled stored procedure is called to retrieve a setting indicating whether security trimming heuristics are enabled.

PROCEDURE proc_Social_GetSecurityTrimmerEnabled (  
    @partitionID uniqueidentifier  
    ,@securityTrimmerEnabled bit OUTPUT  
    ,@correlationId uniqueidentifier = null  
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@securityTrimmerEnabled: An output bit that receives a value specifying whether the security trimming heuristics are enabled. If the value is "1", the security trimming heuristics MUST be enabled for all social data. If the value is zero ("0"), the security trimming heuristics MUST be disabled for all social data. If the value is NULL, the security trimming heuristics MUST be applied for all social data whose Url values match the result set returned by the proc_Social_GetSecurityTrimUrls stored procedure. The input value MUST be ignored.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Security trimming heuristics are disabled.</td>
</tr>
<tr>
<td>1</td>
<td>Security trimming heuristics are enabled.</td>
</tr>
</tbody>
</table>

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

Return Values: An integer that MUST be zero.

Result Sets: MUST NOT return any result sets.

3.2.5.70 proc_Social_AddSecurityTrimUrl

The proc_Social_AddSecurityTrimUrl stored procedure is called to add a URI to the set of URIs associated with the security trimming heuristics.

PROCEDURE proc_Social_AddSecurityTrimUrl (  
    @partitionID uniqueidentifier  
    ,@url nvarchar(2084)  
    ,@alwaysAllow bit  
    ,@correlationId uniqueidentifier = null  
);

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@url: The URI to be added to the set of URIs associated with the security trimming heuristics.

@alwaysAllow: A bit specifying whether the URI is to be added to the always allowed set. If the value is "1", the URI MUST be added to the always allowed set. If the value is zero ("0"), the URI MUST be added to the always security trim set. The value MUST NOT be NULL.

@correlationId: The optional request identifier for the current request.
Return Values: An integer that MUST be zero.
Result Sets: MUST NOT return any result sets.

### 3.2.5.71 proc_SocialData_MergeSocialNotes

The proc_SocialData_MergeSocialNotes stored procedure is called to move the list of social comments from one URI to another one. The notes from the old URI will effectively be merged with the notes already present in the new URI.

```sql
PROCEDURE proc_SocialData_MergeSocialNotes ( 
@partitionID uniqueidentifier ,
@oldUrl varchar(2048) ,
@newUrl varchar(2048) ,
@success bit = null OUTPUT ,
@correlationId uniqueidentifier = null );
```

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@oldUrl: The source URI from which the social comments will be moved.

@newUrl: The target URI to which the social comments will be moved.

@success: Output parameter specifying if the operation finished successfully or failed. Failure MUST be returned if the target URI @newUrl already exists, otherwise success MUST be returned.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Failure.</td>
</tr>
<tr>
<td>1</td>
<td>Success.</td>
</tr>
</tbody>
</table>

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

Return Values: An integer that MUST be zero.
Result Sets: MUST NOT return any result sets.

### 3.2.5.72 proc_SocialData_MigrateSocialDataUrl

The proc_SocialData_MigrateSocialDataUrl stored procedure is called to migrate the social data from one URL to another one.

```sql
PROCEDURE proc_SocialData_MigrateSocialDataUrl ( 
@partitionID uniqueidentifier ,
@oldUrl varchar(2048) ,
@newUrl varchar(2048) ,
@success bit = null OUTPUT ,
@correlationId uniqueidentifier = null );
```

@partitionID: A GUID used to filter the current request. This value MUST NOT be NULL or empty.

@oldUrl: The source URI from which the social data will be moved.
@newUrl: The target URI to which the social data will be moved.

@success: Output parameter specifying if the operation finished successfully or failed. Failure MUST be returned if the target URI @newUrl already exists, otherwise success MUST be returned.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Failure.</td>
</tr>
<tr>
<td>1</td>
<td>Success.</td>
</tr>
</tbody>
</table>

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

Return Values: An integer that MUST be zero.

Result Sets: MUST NOT return any result sets.

3.2.6 Timer Events
None.

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

The following examples show typical interactions between the protocol client and the protocol server.

4.1 Add a Social Tag to a URI

In this example, the *current user* visits a page and wants to add a social tag to it. The interface that the protocol client provides for this also displays the past three social tags from the current user and a list of the social tags on the URI from all users.

The protocol client starts out by querying the last 3 social tags from the current user. Consider the following Transact-Structured Query Language (T-SQL) request:

```sql
exec dbo.proc_SocialTags_GetForUser
@partitionID='0C37852B-34D0-418E-91C6-2AC25AF4BE5B',
@correlationId='BC0BE25A-9FB9-4A03-A8A1-20D4B781A675',
@user_recordID=2,
@includePrivate=0,
@top=3
```

The protocol server responds with a return code of zero, indicating successful execution, and the following result set showing the last 3 social tags from the current user. Note that the user only has 1 social tag so only 1 is returned.

```
TermID  D3970499-9FA6-40C7-B592-4DE5B9783030
LastModifiedTime  2009-05-13 20:41:46.317
Title  Team Site - Home
IsPrivate  0
IsExternal  0
Url  http://server.example.com//SitePages
```

When displaying terms to the user, the protocol client uses the associated metadata. For more information, see [MS-EMMSTORE].

The protocol client then asks for the three most recent social tags on the URI. Consider the following T-SQL request for this information:

```sql
exec dbo.proc_SocialTags_GetForUrl
@viewer_user_recordID=2,
@url=N'http://server.example.com//SitePages',
@partitionID='0C37852B-34D0-418E-91C6-2AC25AF4BE5B',
@correlationId='1A9E2B4D-0C29-43EA-B5C9-D068EE3F7D0A',
```

When displaying terms to the user, the protocol client uses the associated metadata. For more information, see [MS-EMMSTORE].
The protocol server responds with a return code of zero, indicating successful execution, and the following result set. Again, note that there are not three social tags to return, so only the available ones are returned.

<table>
<thead>
<tr>
<th>TermID</th>
<th>D3970499-9FA6-40C7-B592-4DE5B9783030</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>D11DD833-D18A-49EA-8C18-95214CCF182F</td>
</tr>
<tr>
<td>User_RecordId</td>
<td>2</td>
</tr>
<tr>
<td>LastModifiedTime</td>
<td>2009-05-13 20:41:46.317</td>
</tr>
<tr>
<td>Title</td>
<td>Team Site - Home</td>
</tr>
<tr>
<td></td>
<td>Team Site - Home</td>
</tr>
<tr>
<td>IsPrivate</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Url</td>
<td><a href="http://server.example.com//SitePages">http://server.example.com//SitePages</a></td>
</tr>
<tr>
<td></td>
<td><a href="http://server.example.com//SitePages">http://server.example.com//SitePages</a></td>
</tr>
</tbody>
</table>

The current user now wants to add a social tag to this URI. The protocol client uses the associated metadata to convert the user data to a termID. For more information, see [MS-EMMSTORE]. Consider the following T-SQL syntax that adds a social tag:

```
declare @p10 datetime
set @p10='2009-05-13 20:47:42.0670000'
exec dbo.proc_SocialTags_Add
@partitionID='0C37852B-34D0-418E-91C6-2AC25AP4BE5B',
@correlationId='74D7A503-824F-4A78-BCA5-2C582BF623EB',
@user_recordID=2,
@userID='CA448986-2185-4BEF-9331-47A095B8F281',
@url='http://server.example.com//SitePages',
@termID='306EF734-16B4-4B9B-AA88-6AA1D863C0D2',
@isPrivate=0,
@isExternal=0,
@title=N'Team Site - Home',
@lastModifiedTime=@p10 output
select @p10
```

The protocol server stores this information, responds with a return code of zero, indicating successful execution and gives the following output:

```
LastModifiedTime
```

75 / 92
4.2 Add a Social Comment to a URI

In this example, the current user wants to add a social comment to a URI. The user interface provided by the protocol client in the example will also show the user the three most recent social comments that they have made and the three most recent social comments on the URI, as well as the total number of social comments on the URI.

Please consider the following T-SQL syntax for displaying the three most recent social comments from the current user:

```sql
exec dbo.proc_SocialComments_GetForUser
    @partitionID='0C37852B-34D0-418E-91C6-2AC25AF4BE5B',
    @correlationId='BB1511F8-6258-4C12-87DA-FC67B8F84C53',
    @user_recordID=2,
    @max=3
```

The protocol server returns a code of zero, indicating successful execution, and the following result set:

<table>
<thead>
<tr>
<th>CommentID</th>
<th>Url</th>
<th>LastModifiedTime</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td><a href="http://server.example.com/my/Person.aspx?accountname=DOMAIN%5CUSER1">http://server.example.com/my/Person.aspx?accountname=DOMAIN%5CUSER1</a></td>
<td>2009-05-13 21:54:15.333</td>
<td>My profile is very useful for displaying information about myself to other users who can use it to collaborate with me on parallel professional interests.</td>
</tr>
<tr>
<td>1</td>
<td><a href="http://server.example.com//SitePages">http://server.example.com//SitePages</a></td>
<td>2009-05-13 21:52:56.300</td>
<td>I found this site very useful.</td>
</tr>
</tbody>
</table>

The protocol client then requests the three most recent social comments on the current URI. Consider the following T-SQL syntax:

```sql
exec dbo.proc_SocialComments_GetForUrl
    @partitionID='0C37852B-34D0-418E-91C6-2AC25AF4BE5B',
    @correlationId='64859F69-5856-41B7-98CE-2F20D45412C0',
    @url='http://server.example.com//SitePages',
```

<table>
<thead>
<tr>
<th>CommentID</th>
<th>Url</th>
<th>LastModifiedTime</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td><a href="http://server.example.com/my/Person.aspx?accountname=DOMAIN%5CUSER1">http://server.example.com/my/Person.aspx?accountname=DOMAIN%5CUSER1</a></td>
<td>2009-05-13 21:54:15.333</td>
<td>My profile is very useful for displaying information about myself to other users who can use it to collaborate with me on parallel professional interests.</td>
</tr>
<tr>
<td>1</td>
<td><a href="http://server.example.com//SitePages">http://server.example.com//SitePages</a></td>
<td>2009-05-13 21:52:56.300</td>
<td>I found this site very useful.</td>
</tr>
</tbody>
</table>
@max=3

The protocol server responds with a return code of zero, indicating successful execution, and the following result set:

CommentID
1
User_RecordID
2
LastModifiedTime
2009-05-13 21:52:56.300
Comment
I found this site very useful.
IsHighPriority
0
Title
Team Site - Home

The protocol client then requests the total number of social comments on the URI. Consider the following T-SQL syntax:

```sql
declare @p4 int
set @p4=2
exec dbo.proc_SocialComments_Count
@partitionID='0C37852B-34D0-418E-91C6-2AC25AF4BE5B',
@correlationId='D17B1E99-A695-410E-A1A1-7C372427FA4F',
@url=N'http://co745-25//SitePages',
@count=@p4 output
select @p4
```

The protocol client returns a code of zero, indicating successful execution, and the following as output:

```
count 1
```

Now the current user adds their social comment. The protocol client uses the following T-SQL:

```sql
declare @p10 bigint
set @p10=3
declare @p11 datetime
set @p11='2009-05-13 22:03:58.2600000'
exec dbo.proc_SocialComments_Add @partitionID='0C37852B-34D0-418E-91C6-2AC25AF4BE5B',
@correlationId='D17B1E99-A695-410E-A1A1-7C372427FA4F',
@user_recordID=2,
@userID='CA448986-2185-4BEF-9331-47A095B8F281',
?url=N'http://server.example.com//SitePages',
@comment=N'This site contains some important information.',
```
@isHighPriority=0,@title=N'Team Site - Home',
@isExternal=0,
@commentID=0 output,
@lastModifiedTime=0 output
select @p10, @p11

The protocol server stores this information and returns a code of zero, indicating successful execution. It also returns the following values as output:

```
commentID
4
lastModifiedTime
```

4.3 Delete a Social Tag from a URI

In this example the current user deletes one of their social tags. Consider the following T-SQL syntax:

```
exec dbo.proc_SocialTags_Delete
@partitionID='0C37852B-34D0-418E-91C6-2AC25A4BE5B',
@correlationId='F85EBF2A-5D66-4B9A-A9D4DBB9AC07',
@user_recordID=2,
@url=N'http://server.example.com//SitePages',
@termID='306EF734-16B4-4B9B-AA88-6AA1D863C0D2'
```

The protocol server deletes the tag and returns a code of zero, indicating successful execution.

4.4 Mark the Social Tags on a URI as Private

In this example the current user marks their social tags on a URI as private. Consider the following T-SQL syntax:

```
declare @p8 datetime
set @p8=NULL
exec dbo.proc_SocialTags_Update
@partitionID='0C37852B-34D0-418E-91C6-2AC25A4BE5B',
@correlationId='8F524904-CD8D-4C00-8C03-44B7DE88D06A',
@user_recordID=2,
@url=N'http://server.example.com//SitePages',
@termID='D3970499-9FA6-40C7-B592-4DE5B9783030',
@isPrivate=1,
@lastModifiedTime=@p8 output
select @p8
```

The protocol server performs the requested update and returns a code of zero, indicating successful execution. As output it returns `lastModifiedTime` as NULL (because `needUpdateTime` is 0).

4.5 Delete a Social Comment from a URI

In this example, the current user deletes a particular social comment for which the protocol client has already stored the identifier. Consider the following T-SQL syntax:
exec dbo.proc_SocialComments_Delete
@partitionID='0C37852B-34D0-418E-91C6-2AC25AF4BE5B',
@correlationId='C78282AB-CFC6-4C8B-B73A-A55E37400733',
@commentID=4

The protocol server returns a code of 0.

4.6 Add a Social Rating to a URI

In this example the current user, who has not added any social ratings, views a page that displays the average social rating of a URI and the current user's social rating of that URI. The current user then adds a social rating for that URI.

Consider the following T-SQL the protocol client sends to get the average social rating.

```
declare @p4 float
set @p4=90
declare @p5 datetime
set @p5='2009-05-13 23:55:03.9200000'
declare @p6 bigint
set @p6=2
exec dbo.proc_SocialRatings_GetAverage
@partitionID='0C37852B-34D0-418E-91C6-2AC25AF4BE5B',
@correlationId='A65B652D-A8AC-4C45-A3FA-D94D52FB7F92',
@url=N'http://server.example.com/Shared%20Documents/Script2.docx',
@ratingAvg=@p4 output,
@lastModifiedTime=@p5 output,
@ratingCount=@p6 output
select @p4, @p5, @p6
```

The protocol server returns a code of zero, indicating successful execution, and then provides the following values as output:

- ratingAvg: 66.6666666666667
- lastModifiedTime: 2009-05-12 00:02:54.443
- ratingCount: 3

The protocol client then requests the social rating that the current user has provided for the given URI. Consider the following T-SQL:

```
declare @p5 int
set @p5=NULL
declare @p6 datetime
set @p6=NULL
exec dbo.proc_SocialRatings_Get
@partitionID='0C37852B-34D0-418E-91C6-2AC25AF4BE5B',
@correlationId='A65B652D-A8AC-4C45-A3FA-D94D52FB7F92',
@user_recordID=3,@url=N'http://server.example.com/Shared%20Documents/Script2.docx',
@rating=@p5 output,
```

The protocol server returns a code of zero, indicating successful execution, and then provides the following values as output:

- ratingAvg: 66.6666666666667
- lastModifiedTime: 2009-05-12 00:02:54.443
- ratingCount: 3

The protocol client then requests the social rating that the current user has provided for the given URI. Consider the following T-SQL:
The current user now adds a social rating to the URI. Consider the following T-SQL that is sent by the protocol client:

```sql
DECLARE @p7 DATETIME
SET @p7='2009-05-14 00:02:54.4430000'
EXEC dbo.proc_SocialRatings_Add
@partitionid='0C37852B-34D0-418E-91C6-2AC25AF4BE5B',
@correlationId='2BD1EFC5-0975-40E1-96C0-0794B1BD1DFE',
@user_recordID=3,
@userID='620DE88A-8012-45B0-B70F-B7A80A8ACC6C',
@url=N'http://server.example.com/Shared%20Documents/Script2.docx',
@rating=20,
@lastModifiedTime=@p7 output
SELECT @p7
```

The protocol server stores this information and returns zero, indicating successful execution. It also returns the following as output:

```
lastModifiedTime
2009-05-14 00:20:38.220
```

### 4.7 Replicate Social Data

In this example, the protocol client replicates social data from one protocol server to another protocol server. First, the protocol client collects data to be replicated. Consider the following T-SQL call to `proc_SocialTags_GetForReplicationByTime`.

```sql
EXEC dbo.proc_SocialTags_GetForReplicationByTime
@partitionID='0C37852B-34D0-418E-91C6-2AC25AF4BE5B',
@correlationId='BC0BE25A-9FB9-4A03-A8A1-20D4B781A675',
@startTime='2009-05-13 00:00:00',
@endTime='2009-05-14 24:59:59'
```

The protocol server responds with the following data:

```
User_RecordId
2
1
Url
http://server.example.com//SitePages
```
http://server.example.com//SitePages
TermID
D3970499-9FA6-40C7-B592-4DE5B9783030
D1DD833-D18A-49EA-8C18-95214CCF182F
InputTermLabel
Tag
Tag2
Title
Team Site - Home
Team Site - Home

IsPrivate
0
0

LastModifiedTime
2009-05-13 20:41:46.317

Now that the protocol client has replication data for social tags, it needs replication data for social comments. Consider the following T-SQL call that is made by the protocol client for `proc_SocialComments_GetForReplicationByTime`.

```sql
exec dbo.proc_SocialComments_GetForReplicationByTime
@partitionID='0C37852B-34D0-418E-91C6-2AC25AF4BE5B',
@correlationId='BC0BE25A-9FB9-4A03-A8A1-20D4B7E5A675',
@startTime='2009-05-13 00:00:00',
@endTime='2009-05-14 24:59:59'
```

The protocol server responds with the following result set.

<table>
<thead>
<tr>
<th>CommentID</th>
<th>User_RecordID</th>
<th>Url</th>
<th>LastModifiedTime</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td><a href="http://server.example.com/my/Person.aspx?accountname=DOMAIN%5CUSER1">http://server.example.com/my/Person.aspx?accountname=DOMAIN\USER1</a></td>
<td>2009-05-13 21:54:15.333</td>
<td>My profile is very useful for displaying information about myself to other users who can use it to collaborate with me on parallel professional interests. I found this site very useful.</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td><a href="http://server.example.com//SitePages">http://server.example.com//SitePages</a></td>
<td>2009-05-13 21:52:56.300</td>
<td>I found this site very useful.</td>
</tr>
</tbody>
</table>

IsHighPriority
0
0

Title
DOMAIN\USER1
The protocol client now makes the following T-SQL call to proc_SocialRatings_GetForReplicationByTime to get replication data for social ratings.

```sql
exec dbo.proc_SocialRatings_GetForReplicationByTime
@partitionID='0C37852B-34D0-418E-91C6-2AC25AF4BE5B',
@correlationId='BC0BE25A-9FB9-4A03-A8A1-20D4B781A675',
@startTime='2009-05-13 00:00:00',
@endTime='2009-05-14 24:59:59'
```

The protocol server responds with the following result set.

<table>
<thead>
<tr>
<th>User_RecordID</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Url</td>
<td><a href="http://server.example.com/Shared%20Documents/Script2.docx">http://server.example.com/Shared%20Documents/Script2.docx</a></td>
</tr>
<tr>
<td>LastModifiedTime</td>
<td>2009-05-14 00:20:38.220</td>
</tr>
<tr>
<td>Rating</td>
<td>20</td>
</tr>
<tr>
<td>Title</td>
<td>Script</td>
</tr>
</tbody>
</table>

The protocol client now uses metadata and stored procedures to retrieve necessary user data and term data from the original protocol server so that equivalent terms and users can be utilized on the destination protocol server. For more information, see [MS-EMMSTORE] and [MS-UPSPROF]. Then on the destination protocol server, the protocol client calls proc_SocialTags_ReplicateForLive. Consider the following T-SQL syntax for this call.

```sql
exec dbo.proc_SocialTags_ReplicateForLive
@partitionID='0C37852B-34D0-418E-91C6-2AC25AF4BE5B',
@user_recordID=2,
@userID='CA448986-2185-4BEF-9331-47A095B8F281',
@url=N'http://server.example.com//SitePages',
@termID='306EF734-16B4-4B9B-AA88-6A1D863C0D2',
@inputTermLabel=Tag,
@title='Team Site - Home',
@isPrivate=0,
@lastModifiedTime='2009-05-13 20:41:46.317',
@correlationId='74D7A503-824F-47A7-BCA5-2C582BF623EB'
```

The destination protocol server stores this information and gives a return code of 1, which is ignored by the protocol client. The protocol client repeats this for all available social tags in this case one more. Consider the following T-SQL syntax for this call.

```sql
exec dbo.proc_SocialTags_ReplicateForLive
@partitionID='0C37852B-34D0-418E-91C6-2AC25AF4BE5B',
@user_recordID=1,
@userID='620DE88A-8012-45B0-B70F-B7A80A8ACC6C '
```
The protocol server stores this data and gives a return code of 1, which is ignored. The protocol client has now replicated available social tags, and can now move on to social comments. Consider the following T-SQL syntax describing the call to `proc_SocialComments_ReplicateForLive`.

```sql
exec dbo.proc_SocialComments_ReplicateForLive
@partitionID='0C37852B-34D0-418E-91C6-2AC25AF4B5EB',
@user_recordID=1,
@title='Team Site - Home',
@isPrivate=0,
@lastModifiedTime='2009-05-13 20:40:16.563',
@correlationId='74D73A5D-5485-44D5-B56B-2C582BF623EB'
```

The protocol server stores this data and gives a return code of 1, which is ignored. The protocol client proceeds now to replicate the next social comment. Consider the following T-SQL syntax for this.

```sql
exec dbo.proc_SocialComments_ReplicateForLive
@partitionID='0C37852B-34D0-418E-91C6-2AC25AF4B5EB',
@user_recordID=2,
@url=N'http://server.example.com//SitePages',
@comment='I found this site very useful.',
@isHighPriority=0,
@title='Team Site - Home',
@lastModifiedTime='2009-05-13 21:54:15.333',
@correlationId='BC0BE25A-9FB9-4A03-A8A1-20D4B781A675'
```

The protocol server gives a return code of 1, which is ignored. The protocol client now moves on to replicating social ratings. Consider the following T-SQL call to `proc_SocialRatings_ReplicateForLive`.

```sql
exec dbo.proc_SocialRatings_ReplicateForLive
@partitionID='0C37852B-34D0-418E-91C6-2AC25AF4B5EB',
@user_recordID=1,
@url=N'http://server.example.com/Shared%20Documents/Script2.docx',
@rating=20,
@lastModifiedTime='2009-05-14 00:20:38.220',
@correlationId='BC0BE25A-9FB9-4A03-A8A1-20D4B781A675'
```

The protocol server stores this data and gives a return code of 1, which is ignored. To finalize the replication of social ratings the protocol client makes the following T-SQL call.

```sql
   ```
exec dbo.proc_SocialRatings_RefreshAverages
@partitionID='0C37852B-34D0-418E-91C6-2AC25AF4BE5B',
@lastRunTime='2009-05-14 00:20:38.220',
@correlationId='BC0BE25A-9FB9-4A03-A8A1-20D4B781A675'

The protocol server returns a value of 0, which is ignored. The protocol client has now replicated all available social data and has finished the process.
5 Security

5.1 Security Considerations for Implementers

None.

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® Server 2010
- Microsoft® SharePoint® Server 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 72
  server 23
Add a social comment to a URI example 76
Add a social rating to a URI example 79
Add a social tag to a URI example 74
Applicability 9
Attribute groups - overview 22
Attributes - overview 22

B
Binary structures - overview 11
  Bit fields - overview 11

C
Capability negotiation 9
Change tracking 87
Client
  abstract data model 72
  details 72
  higher-layer triggered events 72
  initialization 72
  local events 73
  message processing 72
  sequencing rules 72
  timer events 72
  timers 72
Common data types
  overview 11
  Complex types - overview 21

D
Data model - abstract
  client 72
  server 23
Data types
  common 11
  Data types - simple
    overview 11
Delete a social comment from a URI example 78
Delete a social tag from a URI example 78
Details
  social comments (notes) 23
  social ratings 23
  social tags 23

E
Elements - overview 22
Events
  local - client 73
  local - server 72
  timer - client 72
  timer - server 72

Example
  delete a social comment from a URI 78
  mark the social tags on a URI as private 78
Examples
  add a social comment to a URI 76
  add a social rating to a URI 79
  add a social tag to a URI 74
  delete a social tag from a URI 78
  overview 74
  replicate social data 80

F
Fields - vendor-extensible 9
Flag structures - overview 11

G
Glossary 7
Groups - overview 22

H
Higher-layer triggered events
  client 72
  server 24

I
Implementer - security considerations 85
Index of security parameters 85
Informative references 8
Initialization
  client 72
  server 23
  Introduction 7

L
Local events
  client 73
  server 72

M
Mark the social tags on a URI as private example 78
Message processing
  client 72
  server 24
Messages
  attribute groups 22
  attributes 22
  binary structures 11
  bit fields 11
  common data types 11
  complex types 21
  elements 22
  enumerations 11
  flag structures 11
groups 22
namespaces 21
proc_Social_GetUsers.ResultSet0 result set 15
proc_SocialComments_GetForUrl.proc_SocialComments_GetForUrlDefault.ResultSet0 result set 15
proc_SocialComments_GetForUrlBase.ResultSet0 result set 11
proc_SocialComments_GetForUser.ResultSet0 result set 12
proc_SocialComments_GetForUserWithTag.ResultSet0 result set 12
proc_SocialCommnets_GetDeletes.ResultSet0 result set 21
proc_SocialRatings_GetByTime.ResultSet0 result set (section 2.2.4.24 20, section 2.2.4.26 21)
proc_SocialRatings_GetForUrl.proc_SocialRatings_GetForUrlDefault.ResultSet0 result set 16
proc_SocialRatings_GetForUser.ResultSet0 result set 13
proc_SocialRatings_GetRatingsForUpdate.ResultSet0 result set 19
proc_SocialTags_GetByTime.ResultSet0 result set 18
proc_SocialTags_GetChangedUsers.ResultSet0 result set 18
proc_SocialTags_GetDeletes.ResultSet0 result set 18
proc_SocialTags_GetForReplicationByTime.ResultSet0 result set 19
proc_SocialTags_GetForReplicationByUser.ResultSet0 result set 19
proc_SocialTags_GetForTerms.ResultSet0 result set 16
proc_SocialTags_GetTermsForUrl.proc_SocialTags_GetTermsForUrlDefault.ResultSet0 result set 16
proc_SocialTags_GetTermsForUser.proc_SocialTags_GetTermsForUserDefault.ResultSet0 result set 17
proc_SocialTags_GetUrlCountsForTerm.ResultSet0 result set 20
proc_SocialTags_GetUrlsForTerm.ResultSet0 result set 15
proc_SocialTags_GetUsersForTerm.ResultSet0 result set 17
simple data types 11
simple types 21
Table structures 21
transport 11
view structures 21
XML structures 21
Methods

proc_Admin_CompactChangeLogs 68
proc_Admin_DeletePartition 24
proc_Admin_RemoveSocialItems 67
proc_Admin_SetupPartition 24
proc_Social_AddSecurityTrimUrl 70
proc_Social_GetSecurityTrimmerEnabled 70
proc_Social_GetSecurityTrimUrls 69
proc_Social_GetUsers 48
proc_Social_RemoveSecurityTrimUrl 69
proc_Social_SetSecurityTrimmerEnabled 68
proc_SocialComments_Add 25
proc_SocialComments_Count 26
proc_SocialComments_Delete 26
proc_SocialComments_Get 27
proc_SocialComments_GetByTime 48
proc_SocialComments_GetDeletes 49
proc_SocialComments_GetForReplicationByTime 50
proc_SocialComments_GetForReplicationByUser 50
proc_SocialComments_GetForUrl 28
proc_SocialComments_GetForUrlByTime 50
proc_SocialComments_GetForUser 29
proc_SocialComments_GetForUserWithTag 30
proc_SocialComments_ReplicateForDelete 51
proc_SocialComments_ReplicateForLive 52
proc_SocialComments_Update 30
proc_SocialData_BulkDeleteForUser 39
proc_SocialData_MergeSocialDataUrl 71
proc_SocialData_MigrateSocialDataUrl 71
proc_SocialRatings_Add 31
proc_SocialRatings_Count 32
proc_SocialRatings_Delete 33
proc_SocialRatings_DeleteForUser 33
proc_SocialRatings_Get 34
proc_SocialRatings_GetAverage 35
proc_SocialRatings_GetByTime 64
proc_SocialRatings_GetDeletes 64
proc_SocialRatings_GetForReplicationByTime 65
proc_SocialRatings_GetForReplicationByUser 65
proc_SocialRatings_GetForUrl 36
proc_SocialRatings_GetForUser 37
proc_SocialRatings_GetLastAverageSyncTime 37
proc_SocialRatings_GetRatingsForUpdate 38
proc_SocialRatings_RefreshAverages 53
proc_SocialRatings_ReplicateForDelete 56
proc_SocialRatings_ReplicateForLive 56
proc_SocialRatings_SetLastAverageSyncTime 38
proc_SocialTags_Add 39
proc_SocialTags_Count 40
proc_SocialTags_Delete 41
proc_SocialTags_DeleteForUser 41
proc_SocialTags_GetByTime 58
proc_SocialTags_GetChangedUsers 59
proc_SocialTags_GetDeletes 59
proc_SocialTags_GetForReplicationByTime 60
proc_SocialTags_GetForReplicationByUser 60
proc_SocialTags_GetForTerms 42
proc_SocialTags_GetForUrl 43
proc_SocialTags_GetForUrlByTime 62
proc_SocialTags_GetForUrlByUser 61
proc_SocialTags_GetForUser 43
proc_SocialTags_GetTerms 44
proc_SocialTags_GetTermsForUrl 45
proc_SocialTags_GetTermsForUrlBase 62
proc_SocialTags_GetTermsForUser 46
proc_SocialTags_GetUrlCountsForTerm 63
proc_SocialTags_GetUrlsForTerm 47
proc_SocialTags_GetUsersForTerm 54
proc_SocialTags_MergeTerms 54
proc_SocialTags_RefreshTagClouds 55
proc_SocialTags_ReplicateForDelete 56
proc_SocialTags_ReplicateForLive 57
proc_SocialTags_Update 47

proc_SocialComments_Add method 68
proc_SocialComments_Count method 25
proc_SocialComments_Delete method 26
proc_SocialComments_Get method 27
proc_SocialComments_GetByTime method 48
proc_SocialComments_GetForReplicationByTime method 50
proc_SocialComments_GetForReplicationByUser method 50
proc_SocialComments_GetForUrl method 28
proc_SocialComments_GetForUrl.Default.ResultSet0 result set 15
proc_SocialComments_GetForUrlBase.ResultSet0 result set 11
proc_SocialComments_GetForUrlByTime method 50
proc_SocialComments_GetForUser method 29
proc_SocialComments_GetForUser.ResultSet0 result set 12
proc_SocialComments_GetForUserWithTag method 30
proc_SocialComments_GetForUserWithTag.ResultSet0 result set 12

proc_SocialComments_ReplicateForDelete method 51
proc_SocialComments_ReplicateForLive method 52
proc_SocialComments_Update method 30
proc_SocialComments_Updates, ResultSet0 result set 17
proc_SocialData_BulkDeleteForUser method 68
proc_SocialData_MergeSocialNotes method 71
proc_SocialData_MigrateSocialDataUrl method 71
proc_SocialRatings_Average method 35
proc_SocialRatings_GetAverage method 35
proc_SocialRatings_GetByTime method 64
proc_SocialRatings_GetLastAverageSyncTime method 37
proc_SocialRatings_GetRatingsForUpdate method 38
proc_SocialRatings_GetRatingsForUpdate.ResultSet0 result set 13
proc_SocialRatings_RefreshAverages method 53
proc_SocialRatings_ReplicateForDelete method 66
proc_SocialRatings_ReplicateForLive method 56
proc_SocialRatings_SetLastAverageSyncTime method 38
proc_SocialRatings_Updates, ResultSet0 result set 18
proc_SocialTags_Add method 39
proc_SocialTags_Count method 40
proc_SocialTags_Delete method 41
proc_SocialTags_DeleteForUser method 41
proc_SocialTags_GetByTime method 58
proc_SocialTags_GetByTime.ResultSet0 result set (section 2.2.4.18 18, section 2.2.4.18 18,
proc_SocialTags_GetChangedUsers method 59
proc_SocialTags_GetDeletes method 59
proc_SocialTags_GetDeletes.ResultSet0 result set 19
proc_SocialTags_GetForReplicationByTime method 60
proc_SocialTags_GetForReplicationByTime.ResultSet0 result set 19
proc_SocialTags_GetForReplicationByUser method 60

Namespaces 21
Normative references 8
Overview (synopsis) 8
Parameters - security index 85
Preconditions 9
Prerequisites 9
proc_Admin_CompactChangeLogs method 68
proc_Admin_DeletePartition method 24
proc_Admin_RemoveSocialItems method 67
proc_Admin_SetupPartition method 24
proc_Social_AddSecurityTrimUrl method 70
proc_Social_GetSecurityTrimmerEnabled method 69
proc_Social_GetSecurityTrimUrls method 69
proc_Social_GetUsers method 48
proc_Social_GetUsers.ResultSet0 result set 15
proc_Social_RemoveSecurityTrimUrl method 69
proc_Social_SetSecurityTrimmerEnabled method 68
proc_SocialComments_Get method 27
proc_SocialComments_GetByTime method 48
proc_SocialComments_GetDelete method 26
proc_SocialComments_GetDelete method 26
proc_SocialComments_GetDelete method 49
proc_SocialComments_GetForReplicationByTime method 50
proc_SocialComments_GetForReplicationByUser method 50
proc_SocialComments_GetForUrl method 28
proc_SocialComments_GetForUrl.Default.ResultSet0 result set 15
proc_SocialComments_GetForUrlBase.ResultSet0 result set 11
proc_SocialComments_GetForUrlByTime method 50
proc_SocialComments_GetForUser method 29
proc_SocialComments_GetForUser.ResultSet0 result set 12
proc_SocialComments_GetForUserWithTag method 30
proc_SocialComments_GetForUserWithTag.ResultSet0 result set 12
proc_SocialTags_GetForReplicationByUser.ResultSet0 result set 19
proc_SocialTags_GetForTerms method 42
proc_SocialTags_GetForTerms.ResultSet0 result set 14
proc_SocialTags_GetForUser method 43
proc_SocialTags_GetForUserByTime method 62
proc_SocialTags_GetForUrl method 43
proc_SocialTags_GetForUrlByUser method 61
proc_SocialTags_GetForUser method 43
proc_SocialTags_GetForUser.ResultSet0 result set 14
proc_SocialTags_GetForTerms method 42
proc_SocialTags_GetForTerms.ResultSet0 result set 14
proc_SocialTags_GetForUrl method 43
proc_SocialTags_GetForUrlByUser method 61
proc_SocialTags_GetForUser method 43
proc_SocialTags_GetForUser.ResultSet0 result set 14
proc_SocialTags_GetForTerms method 42
proc_SocialTags_GetForTerms.ResultSet0 result set 14
proc_SocialTags_GetForUser method 43
proc_SocialTags_GetForUser.ResultSet0 result set 14
proc_SocialTags_GetTerms method 44
proc_SocialTags_GetTerms.ResultSet0 result set 15
proc_SocialTags_GetForUrl method 43
proc_SocialTags_GetForUrlByTime method 62
proc_SocialTags_GetForUser method 43
proc_SocialTags_GetForUserResultSet0 result set 17
proc_SocialTags_GetTermsForUrl method 46
proc_SocialTags_GetTermsForUrl.proc_SocialTags_GetTermsForUrl.Default.ResultSet0 result set 16
proc_SocialTags_GetTermsForUser method 46
proc_SocialTags_GetTermsForUser.proc_SocialTags_GetTermsForUser.Default.ResultSet0 result set 17
proc_SocialTags_GetForTermsResultSet0 result set 15
proc_SocialTags_GetForUserResultSet0 result set 15
proc_SocialTags_GetTermsResultSet0 result set 15
proc_SocialTags_MergeTerms method 54
proc_SocialTags_RefreshTagClouds method 55
proc_SocialTags_ReplicateForDelete method 56
proc_SocialTags_ReplicateForLive method 57
proc_SocialTags_Update method 47
Product behavior 86

R
References 8
informative 8
normative 8
Relationship to other protocols 9
Replicate social data example 80
Result sets - messages
proc_Social_GetUsers.ResultSet0 result set 15
proc_SocialComments_GetForUrl.proc_SocialComments_GetForUrlDefault.ResultSet0 result set 15
proc_SocialComments_GetForUserResultSet0 result set 12
proc_SocialComments_GetForUserWithTag.ResultSet0 result set 12
proc_SocialComments_GetForUserDeleteResultSet0 result set 17
proc_SocialRatings_GetForUrl.proc_SocialRatings_GetForUrlDefault.ResultSet0 result set 16
proc_SocialRatings_GetForUser.ResultSet0 result set 13
proc_SocialRatings_GetRatingsForUpdate.ResultSet0 result set 13
proc_SocialTags_GetForReplicationByUser.ResultSet0 result set 19
proc_SocialTags_GetForTerms ResultSet0 result set 18
proc_SocialTags_GetForUser.ResultSet0 result set 14
proc_SocialTags_GetTerms ResultSet0 result set 15
proc_SocialTags_GetTermsForUrl.proc_SocialTags_GetTermsForUrlDefault.ResultSet0 result set 16
proc_SocialTags_GetTermsForUser.proc_SocialTags_GetTermsForUserDefault.ResultSet0 result set 15
proc_SocialTags_GetUsersForTerm.ResultSet0 result set 17
proc_SocialTags_GetForReplicationByTime.ResultSet0 result set 19
proc_SocialTags_GetForReplicationByUser.ResultSet0 result set 19
proc_SocialTags_GetForUserResultSet0 result set 14
proc_SocialTags_GetForTermsResultSet0 result set 14
proc_SocialTags_GetForUserResultSet0 result set 14
proc_SocialTags_GetTermsResultSet0 result set 15
proc_SocialTags_MergeTerms method 54
proc_SocialTags_RefreshTagClouds method 55
proc_SocialTags_ReplicateForDelete method 56
proc_SocialTags_ReplicateForLive method 57
proc_SocialTags_Update method 47
Product behavior 86

S
Security implementer considerations 85
parameter index 85
Sequencing rules client 72
Server 24
abstract data model details 23
higher-layer triggered events 24
local events 72
message processing 24
proc_Admin_CompactChangeLogs method 68
proc_Admin_DeletePartition method 24
proc_Admin_RemoveSocialItems method 67
proc_Admin_SetupPartition method 24
proc_Social_AddSecurityTrimUrl method 69
proc_Social_GetSecurityTrimmerEnabled method 70
proc_Social_GetSecurityTrimUrls method 69
proc_Social_GetUsers method 48
proc_Social_RemoveSecurityTrimUrl method 69
proc_Social_SetSecurityTrimmerEnabled method 68
proc_SocialComments_Add method 25
proc_SocialComments_Count method 26
proc_SocialComments_Delete method 26
proc_SocialComments_Get method 27
proc_SocialComments_GetByTime method 48
proc_SocialComments_GetDeletes method 49
proc_SocialComments_GetForReplicationByTime method 50
proc_SocialComments_GetForReplicationByUser method 50
proc_SocialComments_GetForUser method 28

[MS-UPSSDSP2] — v20120630
User Profile Social Data Stored Procedures Version 2 Protocol Specification
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<table>
<thead>
<tr>
<th>Method Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>proc_SocialComments_GetForUrlByTime</code> method</td>
<td>50</td>
</tr>
<tr>
<td><code>proc_SocialComments_GetForUser</code> method</td>
<td>29</td>
</tr>
<tr>
<td><code>proc_SocialComments_GetForUserWithTag</code> method</td>
<td>30</td>
</tr>
<tr>
<td><code>proc_SocialComments_ReplicateForDelete</code> method</td>
<td>51</td>
</tr>
<tr>
<td><code>proc_SocialComments_ReplicateForLive</code> method</td>
<td>52</td>
</tr>
<tr>
<td><code>proc_SocialComments_Update</code> method</td>
<td>30</td>
</tr>
<tr>
<td><code>proc_SocialData_BulkDeleteForUser</code> method</td>
<td>68</td>
</tr>
<tr>
<td><code>proc_SocialData_MergeSocialNotes</code> method</td>
<td>71</td>
</tr>
<tr>
<td><code>proc_SocialData_MigrateSocialDataURL</code> method</td>
<td>71</td>
</tr>
<tr>
<td><code>proc_SocialRatings_Add</code> method</td>
<td>31</td>
</tr>
<tr>
<td><code>proc_SocialRatings_Count</code> method</td>
<td>32</td>
</tr>
<tr>
<td><code>proc_SocialRatings_Delete</code> method</td>
<td>33</td>
</tr>
<tr>
<td><code>proc_SocialRatings_DeleteForUser</code> method</td>
<td>33</td>
</tr>
<tr>
<td><code>proc_SocialRatings_Get</code> method</td>
<td>34</td>
</tr>
<tr>
<td><code>proc_SocialRatings_GetAverage</code> method</td>
<td>35</td>
</tr>
<tr>
<td><code>proc_SocialRatings_GetByTime</code> method</td>
<td>64</td>
</tr>
<tr>
<td><code>proc_SocialRatings_GetDeletes</code> method</td>
<td>64</td>
</tr>
<tr>
<td><code>proc_SocialRatings_GetForReplicationByTime</code> method</td>
<td>65</td>
</tr>
<tr>
<td><code>proc_SocialRatings_GetForReplicationByUser</code> method</td>
<td>65</td>
</tr>
<tr>
<td><code>proc_SocialRatings_GetForUrl</code> method</td>
<td>36</td>
</tr>
<tr>
<td><code>proc_SocialRatings_GetForUser</code> method</td>
<td>37</td>
</tr>
<tr>
<td><code>proc_SocialRatings_GetLastAverageSyncTime</code> method</td>
<td>37</td>
</tr>
<tr>
<td><code>proc_SocialRatings_GetRatingsForUpdate</code> method</td>
<td>38</td>
</tr>
<tr>
<td><code>proc_SocialRatings_RefreshAverages</code> method</td>
<td>53</td>
</tr>
<tr>
<td><code>proc_SocialRatings_ReplicateForDelete</code> method</td>
<td>56</td>
</tr>
<tr>
<td><code>proc_SocialRatings_ReplicateForLive</code> method</td>
<td>56</td>
</tr>
<tr>
<td><code>proc_SocialRatings_SetLastAverageSyncTime</code> method</td>
<td>38</td>
</tr>
<tr>
<td><code>proc_SocialRatings_GetChangedUsers</code> method</td>
<td>59</td>
</tr>
<tr>
<td><code>proc_SocialRatings_GetDeletes</code> method</td>
<td>59</td>
</tr>
<tr>
<td><code>proc_SocialRatings_GetForReplicationByTime</code> method</td>
<td>60</td>
</tr>
<tr>
<td><code>proc_SocialRatings_MergeTerms</code> method</td>
<td>54</td>
</tr>
<tr>
<td><code>proc_SocialRatings_RefreshTagClouds</code> method</td>
<td>55</td>
</tr>
<tr>
<td><code>proc_SocialRatings_ReplicateForDelete</code> method</td>
<td>56</td>
</tr>
<tr>
<td><code>proc_SocialRatings_ReplicateForLive</code> method</td>
<td>57</td>
</tr>
<tr>
<td><code>proc_SocialRatings_Update</code> method</td>
<td>58</td>
</tr>
</tbody>
</table>

**Sequencing rules**
- `proc_SocialTags_MergeTerms` method 54
- `proc_SocialTags_RefreshTagClouds` method 55
- `proc_SocialTags_ReplicateForDelete` method 56
- `proc_SocialTags_ReplicateForLive` method 57

**Simple data types**
- `proc_SocialTags_Update` method 47
- `proc_SocialTags_VendorExtensibleFields` method 9
- `proc_SocialTags_Versioning` method 9

**Simple types - overview**
- `proc_SocialTags_Update` method 11
- `proc_SocialTags_VendorExtensibleFields` method 11
- `proc_SocialTags_Versioning` method 11

**Tables - overview**
- `proc_SocialTags_Update` method 21
- `proc_SocialTags_VendorExtensibleFields` method 21
- `proc_SocialTags_Versioning` method 21

**Simple types**
- `proc_SocialTags_MergeTerms` method 24
- `proc_SocialTags_RefreshTagClouds` method 24
- `proc_SocialTags_ReplicateForDelete` method 24
- `proc_SocialTags_ReplicateForLive` method 24

**Social comments (notes)**
- `proc_SocialTags_MergeTerms` method 23
- `proc_SocialTags_RefreshTagClouds` method 23
- `proc_SocialTags_ReplicateForDelete` method 23
- `proc_SocialTags_ReplicateForLive` method 23

**Social ratings**
- `proc_SocialTags_MergeTerms` method 23
- `proc_SocialTags_RefreshTagClouds` method 23
- `proc_SocialTags_ReplicateForDelete` method 23
- `proc_SocialTags_ReplicateForLive` method 23

**Social tags**
- `proc_SocialTags_MergeTerms` method 23
- `proc_SocialTags_RefreshTagClouds` method 23
- `proc_SocialTags_ReplicateForDelete` method 23
- `proc_SocialTags_ReplicateForLive` method 23

**Standards assignments**
- `proc_SocialTags_MergeTerms` method 10
- `proc_SocialTags_RefreshTagClouds` method 10
- `proc_SocialTags_ReplicateForDelete` method 10
- `proc_SocialTags_ReplicateForLive` method 10

**Structures**
- `proc_SocialTags_MergeTerms` method 11
- `proc_SocialTags_RefreshTagClouds` method 11
- `proc_SocialTags_ReplicateForDelete` method 11
- `proc_SocialTags_ReplicateForLive` method 11

**Timer events**
- `proc_SocialTags_MergeTerms` method 72
- `proc_SocialTags_RefreshTagClouds` method 72
- `proc_SocialTags_ReplicateForDelete` method 72
- `proc_SocialTags_ReplicateForLive` method 72

**Timers**
- `proc_SocialTags_MergeTerms` method 72
- `proc_SocialTags_RefreshTagClouds` method 72
- `proc_SocialTags_ReplicateForDelete` method 72
- `proc_SocialTags_ReplicateForLive` method 72

**Types**
- `proc_SocialTags_MergeTerms` method 21
- `proc_SocialTags_RefreshTagClouds` method 21
- `proc_SocialTags_ReplicateForDelete` method 21
- `proc_SocialTags_ReplicateForLive` method 21

**Vendor-extensible fields**
- `proc_SocialTags_MergeTerms` method 9
- `proc_SocialTags_RefreshTagClouds` method 9
- `proc_SocialTags_ReplicateForDelete` method 9
- `proc_SocialTags_ReplicateForLive` method 9

**Versioning**
- `proc_SocialTags_MergeTerms` method 9
- `proc_SocialTags_RefreshTagClouds` method 9
- `proc_SocialTags_ReplicateForDelete` method 9
- `proc_SocialTags_ReplicateForLive` method 9

**XML structures**
- `proc_SocialTags_MergeTerms` method 21
- `proc_SocialTags_RefreshTagClouds` method 21
- `proc_SocialTags_ReplicateForDelete` method 21
- `proc_SocialTags_ReplicateForLive` method 21