

## CHAPTER 15

# System Objects for Adaptive Server Anywhere

About this chapter      SQL Remote-specific system information is held in a the Adaptive Server Anywhere catalog. A more comprehensible version of this information is held in a set of system views.

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## SQL Remote system tables

This section describes the system tables used by SQL Remote to define and manage SQL Remote information.

### SYSARTICLE table

**Function** Each row describes an article in a SQL Remote publication.

<b>Columns</b>	<b>Column</b>	<b>Data type</b>	<b>Description</b>
	<b>publication_id</b>	SMALLINT	The publication of which this article is a part.
	<b>table_id</b>	INT	Each article consists of columns and rows from a single table. This column contains the table ID for this table.
	<b>where_expr</b>	VARCHAR(128)	For articles that contain a subset of rows defined by a WHERE clause, this column contains the search condition.
	<b>subscribe_by_expr</b>	VARCHAR(128)	For articles that contain a subset of rows defined by a SUBSCRIBE BY expression, this column contains the expression.

### SYSARTICLECOL table

**Function** Each row identifies a column in an article, identifying the column, the table it is in, and the publication it is part of.

<b>Columns</b>	<b>Column</b>	<b>Data type</b>	<b>Description</b>
	<b>publication_id</b>	SMALLINT	A unique identifier for the publication of which the column is a part.
	<b>table_id</b>	INT	The table to which the column belongs.
	<b>column_id</b>	INT	The column identifier, from the SYSCOLUMN system table.

### SYSPUBLICATION table

**Function** Each row describes a SQL Remote publication.

Columns	Column	Data type	Description
	<b>publication_id</b>	SMALLINT	
	<b>publication_name</b>	VARCHAR(128)	

## SYSRE MOTETYPE table

**Function** Each row describes one of the SQL Remote message types, including the publisher address.

Columns	Column	Data type	Description
	<b>type_id</b>	SMALLINT	An identification number for the message type.
	<b>type_name</b>	VARCHAR(128)	The message type. There is a separate row for each of the following: <ul style="list-style-type: none"> <li>◆ FILE</li> <li>◆ MAPI</li> <li>◆ VIM</li> <li>◆ SMTP</li> </ul>
	<b>publisher_address</b>	VARCHAR(128)	The publisher's address for the message type <b>type_name</b> .

## SYSRE MOTEUSER table

**Function** Each row describes a user ID with REMOTE permissions (a subscriber), together with the status of SQL Remote messages sent to and from that user.

Columns	Column	Data type	Description
	<b>user_id</b>	SMALLINT	The user ID of the user with REMOTE permissions.
	<b>operation</b>	VARCHAR(10)	
	<b>consolidate</b>	CHAR(1)	The column contains either an N to indicate a user granted REMOTE permissions, or a Y to indicate a user granted CONSOLIDATE permissions.
	<b>type_id</b>	SMALLINT	The ID of the message system used to send messages to this user.

Column	Data type	Description
<b>address</b>	VARCHAR(128)	The address to which SQL Remote messages are to be sent. The address must be appropriate for the <b>address_type</b> .
<b>frequency</b>	CHAR(1)	How frequently SQL Remote messages are to be sent.
<b>send_time</b>	DATETIME	The next time messages are to be sent to this user.
<b>log_send</b>	NUMERIC(20, 0)	Messages are sent only to subscribers for whom <b>log_send</b> is greater than <b>log_sent</b> .
<b>time_sent</b>	DATETIME	The time the most recent message was sent to this subscriber.
<b>log_sent</b>	NUMERIC(20, 0)	The log offset for the most recently sent operation.
<b>confirm_sent</b>	NUMERIC(20, 0)	The log offset for the most recently confirmed operation from this subscriber.
<b>send_count</b>	INT	How many SQL Remote messages have been sent.
<b>resend_count</b>	INT	Counter to ensure messages are applied only once at the subscriber database.
<b>time_received</b>	DATETIME	The time the most recent message was received from this subscriber.
<b>log_received</b>	NUMERIC(20, 0)	The log offset in the subscriber's database for the operation most recently received at the current database.
<b>confirm_received</b>	NUMERIC(20, 0)	The log offset in the subscriber's database for the most recent operation for which a confirmation message has been sent.
<b>receive_count</b>	INT	How many messages have been received.
<b>rereceive_count</b>	INT	Counter to ensure messages are applied only once at the current database.

**SYSSUBSCRIPTION table**

**Function** Each row describes a subscription from one user ID (which must have REMOTE permissions) to one publication.

<b>Columns</b>	<b>Column</b>	<b>Data type</b>	<b>Description</b>
	<b>publication_id</b>	SMALLINT	The identifier for the publication to which the user ID is subscribed.
	<b>user_id</b>	SMALLINT	The user ID that is subscribed to the publication.
	<b>subscribe_by</b>	VARCHAR(128)	For publications with a SUBSCRIBE BY expression, this column holds the matching value for this subscription.
	<b>created</b>	NUMERIC(20, 0)	The offset in the transaction log at which the subscription was created.
	<b>started</b>	NUMERIC(20, 0)	The offset in the transaction log at which the subscription was started.
	<b>operation</b>	VARCHAR(20)	

## SQL Remote system views

This section describes the database views used by SQL Remote to present and summarize SQL Remote information.

### SYSARTICLES view

**Function** Each row lists describes an article.

<b>Columns</b>	<b>Column</b>	<b>Description</b>
	<b>publication_name</b>	The publication of which this article is a part.
	<b>table_name</b>	Each article consists of columns and rows from a single table. This column contains the name of this table.
	<b>where_expr</b>	For articles that contain a subset of rows defined by a WHERE clause, this column contains the search condition.
	<b>subscribe_by_expr</b>	For articles that contain a subset of rows defined by a SUBSCRIBE BY expression, this column contains the expression.

### SYSARTICLECOLS view

**Function** Each row describes a column that appears in an article.

<b>Columns</b>	<b>Column</b>	<b>Description</b>
	<b>publication_name</b>	The name of the publication of which the column is a part.
	<b>table_name</b>	The name of the table to which the column belongs.
	<b>column_name</b>	The column name.

### SYSPUBLICATIONS view

**Function** Lists the names of all publications.

<b>Columns</b>	<b>Column</b>	<b>Description</b>
	<b>publication_name</b>	The name of the publication

**SYSREMOTEUSERS view****Function**

Lists information about remote users and their status.

**Columns**

<b>Column</b>	<b>Description</b>
<b>user_name</b>	The user ID of the user with REMOTE permissions.
<b>consolidate</b>	The column contains either an R to indicate a user granted REMOTE permissions, or a C to indicate a user granted CONSOLIDATE permissions.
<b>type_name</b>	The name of the message system used to send messages to this user.
<b>address</b>	The address to which SQL Remote messages are to be sent. The address must be appropriate for the <b>address_type</b> .
<b>frequency</b>	How frequently SQL Remote messages are to be sent.
<b>send_time</b>	The next time messages are to be sent to this user.
<b>next_send</b>	The next time messages are to be sent to this user, in a more comprehensible format.
<b>log_send</b>	Messages are sent only to subscribers for whom <b>log_send</b> is greater than <b>log_sent</b> .
<b>time_sent</b>	The time the most recent message was sent to this subscriber.
<b>log_sent</b>	The log offset for the most recently sent operation.
<b>confirm_sent</b>	The log offset for the most recently confirmed operation from this subscriber.
<b>send_count</b>	How many SQL Remote messages have been sent.
<b>resend_count</b>	Counter to ensure messages are applied only once at the subscriber database.
<b>time_received</b>	The time the most recent message was received from this subscriber.
<b>log_received</b>	The log offset in the subscriber's database for the operation most recently received at the current database.
<b>confirm_received</b>	The log offset in the subscriber's database for the most recent operation for which a confirmation message has been sent.
<b>receive_count</b>	How many messages have been received.
<b>rereceive_count</b>	Counter to ensure messages are applied only once at the current database.

## **SYSSUBSCRIPTIONS view**

**Function** Each row lists information about a subscription.

<b>Columns</b>	<b>Column</b>	<b>Description</b>
	<b>publication_name</b>	The name of the publication to which the user ID is subscribed.
	<b>user_name</b>	The user ID that is subscribed to the publication.
	<b>subscribe_by</b>	For publications with a SUBSCRIBE BY expression, this column holds the matching value for this subscription.
	<b>created</b>	The offset in the transaction log at which the subscription was created.
	<b>started</b>	The offset in the transaction log at which the subscription was started.