

AppSense

Environment Manager

Personalization Server Database Data Dictionary

Version 8.6 Service Pack 3



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ActionDescriptionParameter

Localized parameter descriptions for records in the ActionRecord list.

Columns

Name	Data Type	Description
ActionRecordFK	uniqueidentifier	Foreign key to ActionRecord table
ParameterNumber	int	Number of the parameter
ParameterValue	sql_variant	Resource name (as sql_variant) corresponding to the string to display

Foreign Keys

FK_ActionDescriptionParameter_ActionRecord (onDelete: NO_ACTION)

Column	Source
ActionRecordFK	ActionRecord(ActionRecordPK)

Indexes

PK_ActionDescriptionParameter (CLUSTERED, Primary Key)

Column	Order
ActionRecordFK	ASC
ParameterNumber	ASC

ActionQueue

Queue of deferred actions created by the web console ready to be processed by the background service.

Columns

Name	Data Type	Description
ActionQueuePK	uniqueidentifier	GUID record identifier
ActionRecordFK	uniqueidentifier	Associated row in ActionRecord list
EntityId	sql_variant	sql_variant describing target entity for action
OptionalParameter1	sql_variant	sql_variant for action parameter
OptionalParameter2	sql_variant	sql_variant for action parameter

Foreign Keys

FK_ActionQueue_ActionRecord (OnDelete: NO_ACTION)

Column	Source
ActionRecordFK	ActionRecord(ActionRecordPK)

Indexes

PK__ActionQu__D6DB4082D3C2D4DC (CLUSTERED, Primary Key)

Column	Order
ActionQueuePK	ASC

IX_ActionQueue (NONCLUSTERED)

Column	Order
ActionRecordFK	ASC
EntityId	ASC

ActionRecord

List of actions performed by web console (i.e. audit). Grows continuously - trimmed by daily database purge.

Columns

Name	Data Type	Description
ActionRecordPK	uniqueidentifier	A unique GUID generated to identify the record.
CreatedDate	datetime	Date created (local at web client)
LoggedBy	nvarchar(100)	Name of requesting web console user
ActionTypeFK	uniqueidentifier	Key to ActionType table defining the action
NumberOfActions	int	Number of individual operations associated with this request
CreatedDateUtc	datetime	UTC creation date
ActionSourceId	uniqueidentifier	Source identifier

Foreign Keys

FK_ActionSource (OnDelete: NO_ACTION)

Column	Source
ActionSourceId	ActionSource(ActionSourceId)

FK_ActionRecord_ActionType (OnDelete: NO_ACTION)

Column	Source
ActionTypeFK	ActionType(ActionTypePK)

Indexes

PK__ActionRe__9502CE7497D53FF3 (CLUSTERED, Primary Key)

Column	Order
ActionRecordPK	ASC

IX_ActionRecord (NONCLUSTERED)

Column	Order
LoggedBy	ASC

ActionRecordJob

Single-row table containing control data for the action record job (performing web console background processing), on the Background Service.

Columns

Name	Data Type	Description
ArchiveServer	nvarchar(32)	Name of server which last performed action record processing
StartTime	datetime	Time job is next due (if not running), or time it started (if running)
EndTime	datetime	Time last job finished
RequestStart	bit	Can be manually set to 1 to start an ad-hoc job, which archives all profiles but doesn't do clean-up. No user interface for this in 8.1
RequestStop	bit	Can be manually set to 1 to request a currently running job to be aborted. No user interface at present.
JobInProgress	bit	Used by background service to detect if a job wasn't completed (so another server can take over).
JobResult	nvarchar(80)	Text field recording result of last run

ActionSource

Source of action record.

Columns

Name	Data Type	Description
ActionSourceId	uniqueidentifier	Source identifier
Source	nvarchar(50)	Name of source

Indexes

PK_ActionSource (CLUSTERED, Primary Key)

Column	Order
ActionSourceId	ASC

IX_Source (NONCLUSTERED, Unique)

Column	Order
Source	ASC

ActionStatus

List of valid statuses of an action record.

Columns

Name	Data Type	Description
ActionStatusPK	uniqueidentifier	Guid of status
Status	varchar	Status text

Indexes

PK__ActionSt__3077A54F362C9EF0 (CLUSTERED, Primary Key)

Column	Order
ActionStatusPK	ASC

ActionSubType

Scope associated with an action type in the ActionType table, e.g. Group, User, SelfService etc.

Columns

Name	Data Type	Description
ActionSubTypePK	uniqueidentifier	Guid of subtype
SubType	varchar	Text description of subtype

Indexes

PK__ActionSu__C32C190D9EB6C3A1 (CLUSTERED, Primary Key)

Column	Order
ActionSubTypePK	ASC

ActionType

Actions which can be performed by action record processing, e.g. DeleteArchiveForGroup, RollbackUserProfileArchives.

Columns

Name	Data Type	Description
ActionTypePK	uniqueidentifier	Guid of type
Type	varchar	Text description of type
ActionSubTypeFK	uniqueidentifier	Scope of action - reference to ActionSubType table

Foreign Keys

FK_ActionType_ActionSubType (onDelete: NO_ACTION)

Column	Source
ActionSubTypeFK	ActionSubType(ActionSubTypePK)

Indexes

PK__ActionTy__62FE97714B816E07 (CLUSTERED, Primary Key)

Column	Order
ActionTypePK	ASC

ActionWarning

Warnings for actions which resulted in errors.

Columns

Name	Data Type	Description
ActionWarningPK	uniqueidentifier	Guid of warning
ActionRecordFK	uniqueidentifier	Associated action in ActionRecord
EntityId	sql_variant	sql_variant - warning source

Foreign Keys

FK_ActionWarning_ActionRecord (onDelete: NO_ACTION)

Column	Source
ActionRecordFK	ActionRecord(ActionRecordPK)

Indexes

PK__ActionWa__9DCAC337DD58A9D0 (CLUSTERED, Primary Key)

Column	Order
ActionWarningPK	ASC

IX_ActionWarning (NONCLUSTERED)

Column	Order
ActionRecordFK	ASC
EntityId	ASC

Application

Contains details for each managed application. Applications may be assigned to user group white- or blacklists either directly or via ApplicationGroups.

Columns

Name	Data Type	Description
ApplicationPK	uniqueidentifier	A unique GUID generated to identify the application
Name	nvarchar(50)	The display name for the application used by the console. Free format entered by the user. Application names, Application Group names and reserved application names share the same namespace.
Executable	nvarchar(400)	Name of executable, e.g. winword.exe. May include a path, in which case the executable must be run from the path to be managed
VersionRegEx	nvarchar(50)	Regular expression matching the executable version. The executable's version resource must match this expression. Allows different versions of an application to be managed separately.
OSRegEx	nvarchar(50)	Regular expression matching the operating system version. Allows applications to be managed separately on different operating systems.
CreationTime	datetime	Timestamp of when this record first appeared.
ModifiedTime	datetime	Timestamp of when this record was last modified. Used for concurrency control and optimistic locking
CreationUser	nvarchar(50)	User who created the row
ModifiedUser	nvarchar(50)	User who last modified the row
OriginalName	nvarchar(50)	Original name of the application as used by the endpoints. If application is renamed, only Name is changed.
IncludesVersion	int	Version number of the application-specific includes/excludes for this application

Indexes

PK_Applications_1 (CLUSTERED, Primary Key)

Column	Order
ApplicationPK	ASC

IX_Application_Executable (NONCLUSTERED, Unique)

Column	Order
Executable	ASC
VersionRegEx	ASC
OSRegEx	ASC

IX_Application_Name (NONCLUSTERED, Unique)

Column	Order
Name	ASC

IX_ApplicationOriginalName (NONCLUSTERED, Unique)

Column	Order
OriginalName	ASC

ApplicationBlacklist

Contains details for each blacklisted application. All blacklisted applications are assigned as a group automatically to each personalization group.

Columns

Name	Data Type	Description
ApplicationPK	uniqueidentifier	A unique GUID generated to identify the application
Name	nvarchar(50)	The display name for the application used by the console. Free format entered by the user
Executable	nvarchar(400)	Name of executable, e.g winword.exe. May include a path, in which case the executable must be run from the path to be managed
VersionRegEx	nvarchar(50)	Regular expression matching the executable version. The executable's version resource must match this expression. Allows different versions of an application to be managed separately.
OSRegEx	nvarchar(50)	Regular expression matching the operating system version. Allows applications to be managed separately on different operating systems.
CreationTime	datetime	Timestamp of when this record first appeared
ModifiedTime	datetime	Timestamp of when this record was last modified. Used for concurrency control and optimistic locking.
CreationUser	nvarchar(50)	User who created the row
ModifiedUser	nvarchar(50)	User who last modified the row

Indexes

PK_ApplicationBlacklist (CLUSTERED, Primary Key)

Column	Order
ApplicationPK	ASC

ApplicationData

Stores the data captured for a user. Each row represents either a folder or file in a user's profile for an application or application group. For a file the row contains the actual data from the client.

Columns

Name	Data Type	Description
ApplicationDataPK	int	Integer hash of the filename and relative path, forming part of the key to the table (the other part is the ApplicationProfileFK). A hash is used because the largest possible filename and relative path produce a key that is too large for SQL Server
ApplicationProfileFK	uniqueidentifier	GUID, foreign key to ApplicationProfile table. This associates the file with a particular application or application group for a user
Filename	nvarchar(256)	Name of the file stored in the row. "." indicates row represents a folder.
RelativePath	nvarchar(2000)	Path of the file in the user's cache, either relative to the path or to a CSIDL value or environment variable, e.g.{CSIDL_RECENT}\CustomDestinations
Data	varbinary(max)	Image column containing the actual data from the file, gzipped for larger files. Null if row represents a folder.
Size	int	Size of the data when uncompressed (bytes)
Attributes	int	Attributes of the file as saved (e.g. hidden, read-only). Stored as integer
ACLDetails	nvarchar(2000)	Not in use
ModifiedLow	int	Low part of file timestamp
ModifiedHigh	int	High part of file timestamp
InsertionTime	datetime	Time row inserted or updated. From 8.3P2, used for replication conflict resolution
RowGuid	uniqueidentifier	GUID of row for replication - actually a hash of the primary key
DataHash	binary	MD5 Hash of the data (for archiving)

Foreign Keys

FK_ApplicationData_ApplicationProfile1 (OnDelete: CASCADE)

Column	Source
ApplicationProfileFK	ApplicationProfile(ApplicationProfilePK)

Indexes

PK_ApplicationData (CLUSTERED, Primary Key)

Column	Order
ApplicationProfileFK	ASC
ApplicationDataPK	ASC

IX_ApplicationDataRowGuidUnique (NONCLUSTERED, Unique)

Column	Order
RowGuid	ASC

ApplicationDataArchive

Archive copy of a file in the user's profile, for the archiving feature.

Columns

Name	Data Type	Description
ApplicationDataPK	int	Integer hash of the filename and relative path (see ApplicationData)
ApplicationProfileFK	uniqueidentifier	GUID, foreign key to ApplicationProfile table
ArchiveIDFK	int	Integer archive id, foreign key to ApplicationProfileArchive table. Table key is composite of first three rows
Filename	nvarchar(256)	Name of the file stored in the row. "." indicates row represents a folder.
RelativePath	nvarchar(2000)	Path of the file in the user's cache, either relative to the path or to a CSIDL value or environment variable, e.g.{CSIDL_RECENT}\CustomDestinations
Data	varbinary(max)	Column containing the actual data from the file, gzipped for larger files
Size	int	Size of the data when uncompressed (bytes)
Attributes	int	Attributes of the file as saved (e.g. hidden, readonly). Stored as integer
ACLDetails	nvarchar(2000)	Not in use
ModifiedLow	int	Low part of file timestamp
ModifiedHigh	int	High part of file timestamp
InsertionTime	datetime	Timestamp row inserted (for future auditing use)
DataHash	binary	MD5 Hash of the data (key to ArchiveFile table)

Foreign Keys

FK_ApplicationdataArchiveArchiveFile (OnDelete: NO_ACTION)

Column	Source
DataHash	ArchiveFile(DataHash)

FK_ApplicationDataArchive_ApplicationProfileArchive (OnDelete: CASCADE)

Column	Source
ArchiveIDFK	ApplicationProfileArchive(ArchiveID)

Indexes

PK_ApplicationDataArchive (CLUSTERED, Primary Key)

Column	Order
ApplicationProfileFK	ASC
ArchiveIDFK	ASC
ApplicationDataPK	ASC

IX_ApplicationDataArchive (NONCLUSTERED)

Column	Order
ArchiveIDFK	ASC

ApplicationDiscovered

Contains details of all discovered applications - when application discovery is turned on, every time a new application is discovered its name (with executable version and OS version appended) is added to this table.

Columns

Name	Data Type	Description
ApplicationDiscoveredPK	uniqueidentifier	A unique GUID generated to identify the application
Name	nvarchar(100)	Name of executable with version information appended in parentheses
Executable	nvarchar(400)	Name of executable (without path information), e.g winword.exe
VersionRegEx	nvarchar(50)	Template version regular expression generated by the personalization server for use by the console when converting a discovered application to a normal application
OSRegEx	nvarchar(50)	Template version regular expression generated by the personalization server for use by the console when converting a discovered application to a normal application
CreationTime	datetime	Timestamp of when this record first appeared.
ModifiedTime	datetime	Timestamp of when this record was last modified. Used for concurrency control and optimistic locking
CreationUser	nvarchar(50)	User who created the row
ModifiedUser	nvarchar(50)	User who last modified the row

Indexes

PK_ApplicationDiscovered (CLUSTERED, Primary Key)

Column	Order
ApplicationDiscoveredPK	ASC

IX_ApplicationDiscoveredName (NONCLUSTERED, Unique)

Column	Order
Name	ASC

ApplicationGroup

An application group is a group of applications which are managed together (in the same virtual cache). Applications are linked to application groups by means of the ApplicationGroupAssignment table.

Columns

Name	Data Type	Description
ApplicationGroupPK	uniqueidentifier	GUID generated to identify application group
Name	nvarchar(50)	The display name for the application group used by the console. Free format entered by the user. Application names, Application Group names and reserved application names share the same namespace.
Description	nvarchar(256)	Text description
CreationTime	datetime	Timestamp of when this record first appeared
ModifiedTime	datetime	Timestamp of when this record was last modified. Used for concurrency control and optimistic locking
CreationUser	nvarchar(50)	User who created the row
ModifiedUser	nvarchar(50)	User who last modified the row
OriginalName	nvarchar(50)	Original name of the application group as used by the endpoints. If application group is renamed, only Name is changed.
IncludesVersion	int	Version number of the application group-specific includes/excludes for this group
InstallerCondition	nvarchar(max)	Regular expression used by client migration feature to determine if associated product is installed

Indexes

PK_ApplicationGroups (CLUSTERED, Primary Key)

Column	Order
ApplicationGroupPK	ASC

IX_ApplicationGroup_Name (NONCLUSTERED, Unique)

Column	Order
Name	ASC

IX_ApplicationGroupOriginalName (NONCLUSTERED, Unique)

Column	Order
OriginalName	ASC

ApplicationGroupAssignment

Link table associating applications with application groups. This is a many-to-many relationship, as applications can belong to multiple groups and application groups contains multiple applications.

Columns

Name	Data Type	Description
ApplicationFK	uniqueidentifier	Foreign key to application
ApplicationGroupFK	uniqueidentifier	Foreign key to application group
CreationTime	datetime	Timestamp of when this record first appeared.
ModifiedTime	datetime	Timestamp of when this record was last modified. Used for concurrency control and optimistic locking
CreationUser	nvarchar(50)	User who created the row
ModifiedUser	nvarchar(50)	User who last modified the row
RowGuid	uniqueidentifier	GUID identifying row for replication

Foreign Keys

FK_ApplicationGroupAssignment_Application (OnDelete: CASCADE)

Column	Source
ApplicationFK	Application(ApplicationPK)

FK_ApplicationGroupAssignment_ApplicationGroup (OnDelete: CASCADE)

Column	Source
ApplicationGroupFK	ApplicationGroup(ApplicationGroupPK)

Indexes

PK_ApplicationGroupAssignment (CLUSTERED, Primary Key)

Column	Order
ApplicationFK	ASC
ApplicationGroupFK	ASC

ApplicationGroupManagedFolder

Managed folders associated with an application group.

Columns

Name	Data Type	Description
ApplicationGroupFK	uniqueidentifier	Foreign key to application group
Folder	nvarchar(260)	Folder to be managed
OSRegEx	nvarchar(50)	Operating system regular expression
Recursive	bit	Flag indicating recursion into folders required
RowGuid	uniqueidentifier	Identifier for replication

Foreign Keys

FK_ApplicationGroup (OnDelete: CASCADE)

Column	Source
ApplicationGroupFK	ApplicationGroup(ApplicationGroupPK)

Indexes

PK_ApplicationGroupManagedFolder (CLUSTERED, Primary Key)

Column	Order
ApplicationGroupFK	ASC
Folder	ASC

ApplicationProfile

Represents the saved data for a specific application or application group for a user in a particular user group. (Users may belong to multiple groups depending on how the group membership rules are set up). ApplicationProfile rows also exist for blacklisted applications and discovered applications even if there is no associated data (i.e. related rows in ApplicationData).

Columns

Name	Data Type	Description
UserFK	uniqueidentifier	Foreign key to User table
UserGroupFK	uniqueidentifier	Foreign key to UserGroup table
ApplicationFK	uniqueidentifier	Application or group being managed. This value must be a key to either the Application, ApplicationGroup, ApplicationDiscovered or the ApplicationReserved table. If this is not the case, the profile is orphaned and is removed on the daily clean-up job.
ApplicationType	int	Integer denoting application type
ProtocolVersion	int	Integer denoting how data is stored - current version is 3. Values of 2 may be found when upgrading databases from old software.
ApplicationProfilePK	uniqueidentifier	GUID identifying this row (surrogate key)
ModifiedTime	datetime	Timestamp when profile saved - used by PS to check whether a client has the latest version
IsDistributable	bit	Not in use
HashType	int	Integer denoting hash algorithm used for deriving ApplicationDataPK from filename and relative path (in associated rows in ApplicationData)
StoredSize	int	Redundant field, maintained by database triggers, containing total size of all associated ApplicationData rows. Used by Personalization Analysis
IsDeleted	int	Flag indicating that record is deleted. Deleted records are removed by the daily clean-up task.
ReinitializedTime	datetime	Time when a console action has modified the profile (rather than a client action). This time prevents clients reversing changes to a console action if they are logged in while the console action is performed
IncludesVersion	int	Version number of the includes/excludes when this profile was saved. Used to trigger clean-up at endpoint.

Name	Data Type	Description
NextIncludesVersion	int	Includes version for which a profile clean-up is scheduled.
Cleanuptime	datetime	Scheduled time for next clean-up
CleanupDelayDays	int	Cleanup delay at the time the current clean-up was scheduled
MigrationSequenceNumber	int	Sequence number for completed migration
MigrationStatus	int	Completion status -1 = cancelled, 0 = OK >0 error code
MigrationEndpoint	nvarchar(max)	Name of endpoint where last migration was attempted
DatabaseId	uniqueidentifier	Guid identifying database where profile last updated
LastMigrationTime	datetimeoffset	Time of last migration (import or export)

Foreign Keys

FK_ApplicationProfile_UserGroup (OnDelete: CASCADE, disabled)

Column	Source
UserGroupFK	UserGroup(UserGroupPK)

FK_ApplicationProfile_User (OnDelete: CASCADE)

Column	Source
UserFK	User(UserPK)

Indexes

PK_ApplicationProfile (CLUSTERED, Primary Key)

Column	Order
UserFK	ASC
UserGroupFK	ASC
ApplicationFK	ASC

IX_ApplicationProfile (NONCLUSTERED, Unique)

Column	Order
ApplicationProfilePK	ASC

IX_ApplicationFK (NONCLUSTERED)

Column	Order
ApplicationFK	ASC

IX_User (NONCLUSTERED)

Column	Order
UserFK	ASC

ApplicationProfileArchive

Represents an archived profile (with associated ApplicationDataArchive rows).

Columns

Name	Data Type	Description
ApplicationProfileFK	uniqueidentifier	Foreign key to associated ApplicationProfile row
ArchiveID	int	Integer identity column identifying the archive. Archives are not replicated so a GUID is not required here.
ArchiveDate	datetime	Date and Time archive was created
ProtocolVersion	int	Protocol version of associated data. As data can be upgraded, the version must be saved with the archive for restoration
HashType	int	Integer denoting hash algorithm used for deriving ApplicationDataPK from filename and relative path (in associated rows in ApplicationDataArchive)
StoredSize	int	Redundant field, maintained by database triggers, containing total size of all associated ApplicationData rows. Used by Personalization Analysis
IsDeleted	bit	Flag indicating that record is deleted. Deleted records are removed by the daily clean-up task.
IsProtected	bit	Flag indicated that archive must not be deleted by the daily archive clean-up
Description	nvarchar(20)	Text description associated with this archive
IncludesVersion	int	Version number of the includes/excludes when this profile was saved. Used to trigger clean-up at endpoint
NextIncludesVersion	int	Saved IncludesVersion from original profile
CleanupTime	datetime	Saved CleanupTime from original profile
CleanupDelayDays	int	Saved CleanupDelayDays from original profile

Foreign Keys

FK_ApplicationProfileArchive_ApplicationProfile (OnDelete: CASCADE)

Column	Source
ApplicationProfileFK	ApplicationProfile(ApplicationProfilePK)

Indexes

PK_ApplicationProfileArchive (CLUSTERED, Primary Key)

Column	Order
ArchiveID	ASC

ApplicationProfileReadHistory

Hit counts (number of time a profile was used) on a given day - maintained by Personalization Servers and used by Personalization Analysis. If a profile is not read on a given day, no row for that day is created.

Columns

Name	Data Type	Description
ApplicationProfileFK	uniqueidentifier	Foreign key to associated ApplicationProfile row
Day	smalldatetime	Date accessed (time part is not used)
ReadHits	int	Integer count of reads for the day

Foreign Keys

FK_ApplicationProfileReadHistory_ApplicationProfile (OnDelete: CASCADE)

Column	Source
ApplicationProfileFK	ApplicationProfile(ApplicationProfilePK)

Indexes

PK_ApplicationProfileReadHistory (CLUSTERED, Primary Key)

Column	Order
ApplicationProfileFK	ASC
Day	ASC

ApplicationReserved

Fixed table recording the GUIDs for reserved applications (DesktopSettings, Certificates and SessionData). This table is used by the daily clean-up process to identify reserved applications (and not treat them as orphaned).

Columns

Name	Data Type	Description
ApplicationReservedPK	uniqueidentifier	Identity of reserved application
Name	nvarchar(50)	Name of reserved application. This is not used by production software as it is not localized. Some utilities use it.

Indexes

PK_ApplicationReserved (CLUSTERED, Primary Key)

Column	Order
ApplicationReservedPK	ASC

ApplicationSelfServiceExclusion

Fixed table listing the applications excluded from the web console self-service page.

Columns

Name	Data Type	Description
ApplicationSelfServiceExclusionPK	uniqueidentifier	Identity of excluded application row
ApplicationFK	uniqueidentifier	Identity of excluded application

Indexes

PK__Applicat__18F692C35C7B6EF2 (CLUSTERED, Primary Key)

Column	Order
ApplicationSelfServiceExclusionPK	ASC

ArchiveFile

Archived files, referenced by ApplicationDataArchive.

Columns

Name	Data Type	Description
DataHash	binary	MD5 hash of the data
Data	varbinary(max)	Column containing the actual data from the file, gzipped for larger files

Indexes

PK_ArchiveFile (CLUSTERED, Primary Key)

Column	Order
DataHash	ASC

ArchiveJob

Single-row table containing control data for the daily archiving and clean-up job, which is performed by the Personalization Background Service on a Personalization Server.

Columns

Name	Data Type	Description
ArchiveServer	nvarchar(32)	Name of server which last performed archiving
StartTime	datetime	Time archive job is next due (if not running), or time it started (if running)
EndTime	datetime	Time last job finished
RequestStart	bit	Can be manually set to 1 to start an ad-hoc job, which archives all profiles but doesn't do clean-up. No user interface for this in 8.1
RequestStop	bit	Can be manually set to 1 to request a currently running job to be aborted. No user interface at present.
JobInProgress	bit	Used by background service to detect if a job wasn't completed (so another server can take over).
JobsForced	bit	Set/read by background service to record the type of job in case of a restart
JobDisabled	bit	Can be manually set to 1 to disable daily job
JobResult	nvarchar(80)	Text field recording result of last run

Argument

Provides variable part of an expression in membership rules. An expression has a variable number of arguments depending on the rule.

Columns

Name	Data Type	Description
ArgumentPK	uniqueidentifier	Guid identifying the row
Name	nvarchar(50)	Name of argument showing function
Type	nvarchar(50)	Data type (e.g. String)
Value	nvarchar(256)	Argument value (may be entered by user depending on expression type, i.e. Plugin column in associated Expression)
ExpressionFK	uniqueidentifier	Foreign key to owning expression
OrderNo	int	Order argument is presented to Plugin
ModifiedUser	nvarchar(50)	User who last modified the row
ModifiedTime	datetime	Timestamp of when this record was last modified. Used for concurrency control and optimistic locking
CreationUser	nvarchar(50)	User who created the row
CreationTime	datetime	Timestamp of when this record first appeared.

Foreign Keys

FK_Property_Action (onDelete: CASCADE)

Column	Source
ExpressionFK	Expression(ExpressionPK)

Indexes

PK_Property (CLUSTERED, Primary Key)

Column	Order
ArgumentPK	ASC

AuthorizedUser

Contains list of users authorized to connect to the database with the Console or Web Console.

Columns

Name	Data Type	Description
UserPK	uniqueidentifier	GUID identifier (not related to User table)
Name	nvarchar(50)	User login name (domain\user). May be AD group name
Sid	varchar	User SID (initialized but not used)
DistinguishedName	nvarchar(400)	User's AD name (initialized but not used)
ADObjectId	uniqueidentifier	AD object (initialized but not used)
IsGroup	bit	Indicates whether the user name is an AD group
CreationTime	datetime	Timestamp of when this record first appeared. Used to audit/troubleshooting
ModifiedTime	datetime	Timestamp of when this record was last modified. Used for concurrency control and optimistic locking
CreationUser	nvarchar(50)	User who created the row
ModifiedUser	nvarchar(50)	User who last modified the row

Indexes

PK_AuthorizedUsers (CLUSTERED, Primary Key)

Column	Order
UserPK	ASC

AuthorizedUserRole

Roles associated with each user.

Columns

Name	Data Type	Description
UserPK	uniqueidentifier	Foreign key to AuthorizedUser table
Role	int	Integer role type: 0 = user 1 = administrator, 2 = web user, 3 = web administrator, 4 = Self Service user
RowGuid	uniqueidentifier	Guid for replication

Foreign Keys

FK_AuthorizedUserRole_AuthorizedUser (onDelete: CASCADE)

Column	Source
UserPK	AuthorizedUser(UserPK)

Certificate

Fixed list of folder paths used by the reserved Certificate application (sent to client).

Columns

Name	Data Type	Description
CertificatePK	uniqueidentifier	GUID identifier
Path	nvarchar(4000)	Path identifying file to be saved to save user's certificates
CreationUser	nvarchar(50)	User who created the row
CreationTime	datetime	Timestamp of when this record first appeared.
ModifiedUser	nvarchar(50)	User who last modified the row
ModifiedTime	datetime	Timestamp of when this record was last modified

Indexes

PK_Certificate (CLUSTERED, Primary Key)

Column	Order
CertificatePK	ASC

DesktopSetting

List of registry settings used by legacy clients when saving and restoring Desktop Settings.
 Obsolete - only used for backward compatibility with 8.0 client software.

Columns

Name	Data Type	Description
SettingPK	uniqueidentifier	GUID identifier
Name	nvarchar(50)	Descriptive name for user interface (on 8.0 only)
Path	nvarchar(4000)	Registry path
CreationUser	nvarchar(50)	User who created the row
CreationTime	datetime	Timestamp of when this record first appeared.
ModifiedUser	nvarchar(50)	User who last modified the row
ModifiedTime	datetime	Timestamp of when this record was last modified
ReplacedBySessionData	bit	True if the path also found in SessionData. For 8.0Patch5+ clients, the row is not sent

Indexes

PK_DesktopSetting (CLUSTERED, Primary Key)

Column	Order
SettingPK	ASC

DesktopSettings.Conditions

Represents a condition tree which can be associated with a desktop setting group.

Columns

Name	Data Type	Description
ID	uniqueidentifier	Condition identifier (Guid)
Name	nvarchar(50)	Name of condition
Description	nvarchar(max)	Description
UEMConditions	varbinary(max)	Xml representing condition tree (UEM format)
EMXConditions	varbinary(max)	Xml representing condition tree (EMX client format)
AvailableForReuse	bit	Bit indicating that the condition can be re-used in multiple groups
CreationUser	nvarchar(50)	User who created the row
CreationTime	datetime	Timestamp of when this record first appeared.
ModifiedUser	nvarchar(50)	User who last modified the row
ModifiedTime	datetime	Timestamp of when this record was last modified

Indexes

PK_Conditions (CLUSTERED, Primary Key)

Column	Order
ID	ASC

IX_Conditions_Name (NONCLUSTERED, Unique)

Column	Order
Name	ASC

DesktopSettings.Custom

Setting created by the user on the console. Belongs to a single parent setting.

Columns

Name	Data Type	Description
SettingID	uniqueidentifier	Parent setting to which this custom setting belongs
SettingData	xml	xml representing the files and registry items in the setting
RowGuid	uniqueidentifier	Replication Guid

Foreign Keys

FK_Custom_Setting (OnDelete: CASCADE)

Column	Source
SettingID	Setting(ID)

DesktopSettings.Fixed

Fixed setting - refers by name to fixed setting description in the fixed xml document (in dbo.DesktopSettingsXml table).

Columns

Name	Data Type	Description
SettingID	uniqueidentifier	Parent setting to which this fixed setting belongs
SettingItem	nvarchar(50)	Name of setting item in the fixed xml
RowGuid	uniqueidentifier	Replication Guid

Foreign Keys

FK_Fixed_Setting (OnDelete: CASCADE)

Column	Source
SettingID	Setting(ID)

Indexes

PK_Fixed (CLUSTERED, Primary Key)

Column	Order
SettingID	ASC
SettingItem	ASC

DesktopSettings.Group

Desktop Setting Group (Windows Setting). Can be assigned to personalization groups. Contains 0 or 1 conditions and a number of settings.

Columns

Name	Data Type	Description
ID	uniqueidentifier	Group Identifier (Guid)
DisplayName	nvarchar(100)	Name as seen on the console
OriginalName	nvarchar(max)	Name at creation which doesn't change and is recognized by the client
Description	nvarchar(max)	User-entered descriptions
LegacyGroup	bit	Bit flag indicating whether this group should be added to legacy user group on upgrade or import
CreationUser	nvarchar(50)	User who created the row
CreationTime	datetime	Timestamp of when this record first appeared.
ModifiedUser	nvarchar(50)	User who last modified the row
ModifiedTime	datetime	Timestamp of when this record was last modified
ConditionID	uniqueidentifier	If not null, identity of an associated condition tree (from DesktopSettings.Conditions table)

Foreign Keys

FK_Group_Condition (onDelete: SET_NULL)

Column	Source
ConditionID	Conditions(ID)

Indexes

PK_Group (CLUSTERED, Primary Key)

Column	Order
ID	ASC

IX_DisplayName (NONCLUSTERED, Unique)

Column	Order
DisplayName	ASC

DesktopSettings.GroupSetting

Link table between Setting and Group - a desktop setting group can have multiple settings (and vice versa).

Columns

Name	Data Type	Description
GroupID	uniqueidentifier	ID of group
SettingID	uniqueidentifier	ID of setting
CreationUser	nvarchar(50)	User who created the row
CreationTime	datetime	Timestamp of when this record first appeared.
RowGuid	uniqueidentifier	Replication Guid

Foreign Keys

FK_GroupSetting_Group (OnDelete: CASCADE)

Column	Source
GroupID	Group(ID)

FK_GroupSetting_Setting (OnDelete: CASCADE)

Column	Source
SettingID	Setting(ID)

Indexes

PK_GroupSetting (CLUSTERED, Primary Key)

Column	Order
GroupID	ASC
SettingID	ASC

DesktopSettings.RemovedGroup

Tracks desktop settings groups removed from user groups (for later data clean-up).

Columns

Name	Data Type	Description
UserGroupId	uniqueidentifier	ID of user group from which dsg was removed
OriginalName	nvarchar(100)	OriginalName of dsg removed
RemovedTime	datetime	Time of removal (UTC)

Foreign Keys

FK_RemoveGroupUserGroup (onDelete: CASCADE)

Column	Source
UserGroupId	UserGroup(UserGroupPK)

Indexes

PK_RemovedGroup (NONCLUSTERED, Primary Key)

Column	Order
UserGroupId	ASC
OriginalName	ASC

DesktopSettings.Setting

Setting as added to a DesktopSettings.Group. A setting can be either Fixed (with an associated row in DesktopSettings.Fixed) or Custom (with a DesktopSettings.Custom row).

Columns

Name	Data Type	Description
ID	uniqueidentifier	ID of setting
Name	nvarchar(100)	Name of setting
Description	nvarchar(max)	Setting description
CreationUser	nvarchar(50)	User who created the row
CreationTime	datetime	Timestamp of when this record first appeared.
ModifiedUser	nvarchar(50)	User who last modified the row
ModifiedTime	datetime	Timestamp of when this record was last modified

Indexes**PK_Setting (CLUSTERED, Primary Key)**

Column	Order
ID	ASC

IX_Name (NONCLUSTERED, Unique)

Column	Order
Name	ASC

DesktopSettings.UserGroupGroup

Link table associating desktop settings groups with user groups.

Columns

Name	Data Type	Description
UserGroupID	uniqueidentifier	ID of UserGroup
GroupID	uniqueidentifier	ID of DesktopSettings.Group
CreationUser	nvarchar(50)	User who created the row
CreationTime	datetime	Timestamp of when this record first appeared.
RowGuid	uniqueidentifier	Replication Guid

Foreign Keys**FK_UserGroupGroup_Group (OnDelete: CASCADE)**

Column	Source
GroupID	Group(ID)

FK_UserGroupGroup_UserGroup (OnDelete: CASCADE)

Column	Source
UserGroupID	UserGroup(UserGroupPK)

Indexes**PK_UserGroupGroup (CLUSTERED, Primary Key)**

Column	Order
UserGroupID	ASC
GroupID	ASC

DesktopSettings.WSGStatus

Tracks migration status for user's WSGs.

Columns

Name	Data Type	Description
ApplicationProfileId	uniqueidentifier	Id of user's windows settings profile
OriginalName	nvarchar(100)	Name of WSG
rdndUserId	uniqueidentifier	Redundant copy of user id
rdndUserGroupId	uniqueidentifier	Redundant copy of user group id
MigrationSequenceNumber	int	Sequence number for completed migration
MigrationStatus	int	Completion status -1 = cancelled, 0 = OK >0 error code
MigrationEndpoint	nvarchar(max)	Name of endpoint where last migration was attempted
ModifiedTime	datetime	Last modified time (UTC) for replication conflict resolution
HasData	bit	True if client has data for this WSG. Null if not known
LastMigrationTime	datetimeoffset	Time of last migration (import or export)
RowGuid	uniqueidentifier	Replication row identifier

Foreign Keys

FK_WSGMigrationStatus_ApplicationProfileId (onDelete: CASCADE)

Column	Source
ApplicationProfileId	ApplicationProfile(ApplicationProfilePK)

Indexes

PK_WSGMigrationStatus (CLUSTERED, Primary Key)

Column	Order
ApplicationProfileId	ASC
OriginalName	ASC

DesktopSettingState

(Version 8.1-8.2 software) The enable state for each item in the DesktopSettingsXml document.

Columns

Name	Data Type	Description
Setting	nvarchar(50)	Name of element
Group	nvarchar(50)	Name of group containing element
Enabled	bit	Enable state of setting
ModifiedUser	nvarchar(50)	User who last modified the row
ModifiedTime	datetime	Timestamp of when this record was last modified. Used for concurrency control and optimistic locking
CreationUser	nvarchar(50)	User who created the row
CreationTime	datetime	Timestamp of when this record first appeared.
RowGuid	uniqueidentifier	Row identity for replication

Indexes

PK_DesktopSettingState (CLUSTERED, Primary Key)

Column	Order
Setting	ASC
Group	ASC

DesktopSettingsXml

Contains the fixed xml documents for desktop settings for software versions 8.1 onwards.

Columns

Name	Data Type	Description
DesktopSettingsXml	varbinary(max)	Image containing xml document (utf-8 format)
RowGuid	uniqueidentifier	Row identity for replication
Version	int	Version of xml. 1 = 8.1-8.2 settings, 2 = 8.3-8.4 settings, 3 = 8.5+ settings.

Expression

Expressions are associated with memberships and represent a rule to be tested. Each expression has a number of associated argument records. A membership may have multiple expressions, forming a condition group.

Columns

Name	Data Type	Description
ExpressionPK	uniqueidentifier	Guid identifying expression
MembershipFK	uniqueidentifier	Foreign key to owning membership row
Plugin	nvarchar(50)	Name of plugin implementing the rule. This refers to a plugin assembly in the Personalization Server
Enabled	bit	Not used
Description	nvarchar(400)	Free text description
OrderNo	int	Display order for console.
Name	nvarchar(100)	User-visible name of condition, generated by console on creation, describing the action
Notes	nvarchar(4000)	Not used
ModifiedUser	nvarchar(50)	User who last modified the row
ModifiedTime	datetime	Timestamp of when this record was last modified. Used for concurrency control and optimistic locking
CreationUser	nvarchar(50)	User who created the row
CreationTime	datetime	Timestamp of when this record first appeared.

Foreign Keys

FK_Expression_Membership (onDelete: CASCADE)

Column	Source
MembershipFK	Membership(MembershipPK)

Indexes

PK_Action (CLUSTERED, Primary Key)

Column	Order
ExpressionPK	ASC

Global

A single-row fixed table containing system constants. The console does not provide any mechanism to alter these.

Columns

Name	Data Type	Description
GlobalPK	uniqueidentifier	Fixed GUID used as parent for global rows, e.g. Path table.
RootRegistry	ntext	Not used
RootFolder	ntext	Location of the appsensevirtual folder on all clients. Usually uses the reserved environment variable %APPSENSEPROFILEDIRROOT%, which translates as the root of the drive where the user's profile is stored.
CreationTime	datetime	Timestamp of when this record first appeared.
ModifiedTime	datetime	Timestamp of when this record was last modified. Used for concurrency control and optimistic locking
CreationUser	nvarchar(50)	User who created the row
ModifiedUser	nvarchar(50)	User who last modified the row

Indexes

PK_Global (CLUSTERED, Primary Key)

Column	Order
GlobalPK	ASC

GlobalProperty

Contains a list of name/value pairs used for configuration. These properties control various client actions and some aspects of the server. Users may add properties although if the property name is not known to the system there's no effect. Appendix I lists the properties recognized by the system.

Columns

Name	Data Type	Description
Name	nvarchar(50)	Name of property
Value	nvarchar(2000)	Text value of property
CreationTime	datetime	Timestamp of when this record first appeared.
ModifiedTime	datetime	Timestamp of when this record was last modified. Used for concurrency control and optimistic locking
CreationUser	nvarchar(50)	User who created the row
ModifiedUser	nvarchar(50)	User who last modified the row
SystemSetting	bit	True if property is a manufacturer setting. Produces a warning at the console if the property is changed.
DefaultName	nvarchar(50)	Original name for factory reset function (not used as user can't rename a factory setting)
DefaultValue	nvarchar(2000)	Original value for factory reset
Description	nvarchar(2000)	Explanatory text for value. This text is a resource identifier for a localized string in the console. The text appears in the console's Global Settings function
Deleted	bit	If true, row is deleted and has no effect. Used by factory reset function to restore deleted manufacturer rows.

Indexes

PK_GlobalProperty (CLUSTERED, Primary Key)

Column	Order
Name	ASC

GroupBasedDesktopSettingState

Contains the state of each desktop setting for 8.3-8.4 clients. The state is the "RoamPlan" - can be Off, Shared or Separate, indicating whether the setting is disabled, managed separately for each operating system or shared across operating systems.

Columns

Name	Data Type	Description
UserGroupFK	uniqueidentifier	Group to which this row applies. For a global row the global guid (10732D21-EA06-4588-8144-D79EBD0EB2FF) is used
Setting	nvarchar(50)	Setting name in xml
Group	nvarchar(50)	Group name of setting in xml
RoamPlan	nvarchar(50)	RoamPlan text - Off, Separate, Shared
ModifiedUser	nvarchar(50)	User who last modified the row
ModifiedTime	datetime	Timestamp of when this record was last modified. Used for concurrency control and optimistic locking
CreationUser	nvarchar(50)	User who created the row
CreationTime	datetime	Timestamp of when this record first appeared.
RowGuid	uniqueidentifier	Row identity for replication
DefaultRoamPlan	nvarchar(50)	not used

Indexes

PK_GroupBasedDesktopSettingState (CLUSTERED, Primary Key)

Column	Order
UserGroupFK	ASC
Group	ASC
Setting	ASC

Membership

Memberships define the rules used for selecting the Site or UserGroup for a client on initial login, and also for selecting offline mode for a UserGroup. Memberships are organized in a “forest” hierarchy - each tree represents either membership rules for a site, membership rules for a group or offline rules for a group. A membership row at the top of a tree has a null parent and a non-null AssignmentFK - the assignmentFK is a reference to the owning site or group. The subtype column distinguishes between user group membership tree (value 0) and offline rule membership (value 1). There is also a (redundant) type field indicating whether the row is for a site or a user group. The default site has no membership trees and the default user group has only an offline rules tree, because memberships cannot be defined for these entities. Each child row in a tree represents a condition group, and .has a set of associated expressions (see Expression table). There can be multiple condition groups associated with each parent.

Columns

Name	Data Type	Description
MembershipPK	uniqueidentifier	Guid identifying row
ParentFK	uniqueidentifier	If non-null, row is a child row. Column is a foreign key to the MembershipFK column in the same table - the column points to the parent row
ModifiedUser	nvarchar(50)	User who last modified the row
ModifiedTime	datetime	Timestamp of when this record was last modified. Used for concurrency control and optimistic locking
CreationUser	nvarchar(50)	User who created the row
CreationTime	datetime	Timestamp of when this record first appeared.
OrderNo	int	The order sequence (within a site or group). Lower numbers have higher precedence.
AssignmentFK	uniqueidentifier	Guid of the owning Site row or UserGroup row. Applies only to top-level rows
IsGroup	bit	Type of row, true if UserGroup, false if Site. This is technically redundant but speeds up rule checks.
SubType	int	0 indicates membership, 1 indicated offline rules (relevant to tree header rows only)

Foreign Keys

FK_Membership_Membership (OnDelete: NO_ACTION)

Column	Source
ParentFK	Membership(MembershipPK)

Indexes

PK_Membership (CLUSTERED, Primary Key)

Column	Order
MembershipPK	ASC

MigrationSources

Allowable values for the MigrationSource column in dbo.UserGroup.

Columns

Name	Data Type	Description
MigrationSource	int	Integer source type
Description	nvarchar(max)	English description of the type

Indexes

PK_Migratio__A462EEF9519DB5C5 (CLUSTERED, Primary Key)

Column	Order
MigrationSource	ASC

MigrationTypes

Allowable values for the MigrationType column in dbo.UserGroup.

Columns

Name	Data Type	Description
MigrationType	int	Integer migration type
Description	nvarchar(max)	English description of the type

Indexes

PK__Migratio__A223B1DF12D6BCA3 (CLUSTERED, Primary Key)

Column	Order
MigrationType	ASC

Path

Contains registry and file inclusion and exclusion lists. A path may be global or be associated with a particular application or application group. Paths may be modified by the user. There is no factory reset function.

Columns

Name	Data Type	Description
ParentFK	uniqueidentifier	GUID of parent. This can be the GlobalPK column of the single-row Global table, an ApplicationPK from Application or an ApplicationGroupPK from ApplicationGroup.
PathPK	uniqueidentifier	GUID identifying row
Path	nvarchar(4000)	Registry or file path - file paths generally begin with a CSIDL type value.
Type	int	Path type. 0 = registry, 1 = file
Include	bit	True for an inclusion, False for an exclusion
ModifiedTime	datetime	Timestamp of when this record was last modified. Used for concurrency control and optimistic locking
CreationTime	datetime	Timestamp of when this record first appeared.
CreationUser	nvarchar(50)	User who created the row
ModifiedUser	nvarchar(50)	User who last modified the row

Indexes

PK_Path (CLUSTERED, Primary Key)

Column	Order
ParentFK	ASC
PathPK	ASC

Properties

Contains name-value pairs used by the installation and upgrade process and the web console. Name is also qualified by Namespace to form the key of the table. The database schema version is contained in this table. See Appendix III for values.

Columns

Name	Data Type	Description
Namespace	nvarchar(32)	Text namespace forming part of the key
Name	nvarchar(32)	Name of value within namespace
Value	sql_variant	SqlVariant containing value

RegisteredPersonalizationServers

Used by personalization servers to do automatic registration. When a personalization server is started up, it checks whether its name is in this table and if not adds itself to the default site if it is not already registered to another site. This feature is to allow new personalization servers to work "out of the box". Automatic registration for a personalization server may be disabled by an entry in web.config (see above).

Columns

Name	Data Type	Description
FQDN	nvarchar(64)	Fully-qualified domain name of personalization server

Indexes

FQDN (CLUSTERED, Primary Key)

Column	Order
FQDN	ASC

Server

Each row represents a personalization server connected to the database. A row may also represent a virtual host - this is an entry which represents a load-balanced IP address shared by multiple personalization servers. The Personalization Server uses the Sites table to associate a client computer with a site, then sends it the list of servers associated with that site.

Columns

Name	Data Type	Description
ServerPK	uniqueidentifier	Guid identifying the row
NetbiosName	nvarchar(50)	Netbios name of the server
Url	nvarchar(500)	URL sent to clients identifying the server
Port	int	TCP/IP port used by the server
Description	nvarchar(256)	Free text description
DistinguishedName	nvarchar(400)	AD name of server
ADObjectld	uniqueidentifier	AD object id of server
SiteFK	uniqueidentifier	Foreign key of row in Site table associated with the server
CreationTime	datetime	Timestamp of when this record first appeared.
ModifiedTime	datetime	Timestamp of when this record was last modified. Used for concurrency control and optimistic locking
CreationUser	nvarchar(50)	User who created the row
ModifiedUser	nvarchar(50)	User who last modified the row
FQDN	nvarchar(64)	Fully-qualified domain name of server
ServerType	smallint	0 = server, 1 = virtual host
DNSSuffix	nvarchar(64)	DNS Suffix of server name
OrderNo	int	Search order
VirtualHostRetries	int	Number of retries for virtual host
VirtualHostTimeOut	int	Delay in milliseconds between virtual host retries

Foreign Keys

FK_Servers_Sites (OnDelete: CASCADE)

Column	Source
SiteFK	Site(SitePK)

Indexes

PK_ProfileServers (CLUSTERED, Primary Key)

Column	Order
ServerPK	ASC

SessionData

Software versions 8.0 - 8.4. List of registry paths included as Session Data by the client. A row may be global or group-specific.

Columns

Name	Data Type	Description
SessionDataPK	uniqueidentifier	Guid identifying the row
Path	nvarchar(4000)	Registry path for inclusion
Type	int	Always 0 for registry type. Session Data folders are not supported
CreationTime	datetime	Timestamp of when this record first appeared.
ModifiedTime	datetime	Timestamp of when this record was last modified. Used for concurrency control and optimistic locking
CreationUser	nvarchar(50)	User who created the row
ModifiedUser	nvarchar(50)	User who last modified the row
UserGroupFK	uniqueidentifier	Owning user group. For a global row, the global guid (10732D21-EA06-4588-8144-D79EBD0EB2FF) is used
ReplacedByDesktopSettings2	bit	Marks an entry now replaced by desktopsettings version 2 (i.e. 8.3+ desktop settings). This entry is not sent to 8.3+ clients

Indexes

PK_SessionData (CLUSTERED, Primary Key)

Column	Order
SessionDataPK	ASC

Site

Represents a personalization site. The current personalization database is called the “Default Site”, and cannot be changed. Other sites may be added manually, with their associated servers. Membership rules may then be set up to redirect clients to a different site. A site may represent a different database (to redirect users to a local database) or a load-balancing group of servers connected to the same database.

Columns

Name	Data Type	Description
SitePK	uniqueidentifier	Guid identifying the row. The default site has a fixed well-known Guid.
Name	nvarchar(50)	Name of site. The default site cannot be deleted - other sites may be added by the console.
Description	nvarchar(256)	Text description of site
CreationTime	datetime	Timestamp of when this record first appeared.
ModifiedTime	datetime	Timestamp of when this record was last modified. Used for concurrency control and optimistic locking
CreationUser	nvarchar(50)	User who created the row
ModifiedUser	nvarchar(50)	User who last modified the row
OrderNo	int	Precedence of site - used for display and membership rule evaluation. Lower-numbered sites are checked before higher.

Indexes

PK_ProfileSites (CLUSTERED, Primary Key)

Column	Order
SitePK	ASC

IX_Site (NONCLUSTERED, Unique)

Column	Order
Name	ASC

TraceAccess

All tables beginning "Trace" are used when data collection is enabled for a user group. Activity data is collected in these tables and is analyzed by use of the Configuration Assistant program. Trace data is not visible from the normal EM Console. TraceAccess contains the raw trace data - when an application reads a path (file or registry) a row is created for the combination. When the same application writes to the path the row is created or if already exists the modify bit is set. Only one entry is created for each combination of application and path, and reads do not clear the modify flag if it is set. Since trace data is not replicated, integer ids rather than Guid's are used for keys for speed.

Columns

Name	Data Type	Description
TraceApplicationID	int	Foreign key to TraceApplication table identifying application
TracePathID	int	Foreign key to TracePath identifying path
Modify	bit	True if path has been written
AccessCount	bigint	Total number of times the path has been accessed for the application.
AccumulatedSize	bigint	The total sum of the collected data sizes for the path for the application, required for average size calculation.
LargestSize	bigint	The largest data size encountered for the path.
PathApplicationCount	bigint	The number of times data has been collected for the path for the application, required for average size calculation.

Foreign Keys

FK_TraceAccess_TraceApplication (OnDelete: CASCADE)

Column	Source
TraceApplicationID	TraceApplication(TraceApplicationID)

FK_TraceAccess_TracePath (OnDelete: CASCADE)

Column	Source
TracePathID	TracePath(TracePathID)

Indexes

PK_TraceAccess (CLUSTERED, Primary Key)

Column	Order
TraceApplicationID	ASC
TracePathID	ASC

IX_TraceAccessPath (NONCLUSTERED)

Column	Order
TracePathID	ASC

TraceApplication

Columns

Name	Data Type	Description
TraceApplicationID	int	Integer primary key identifying application
ApplicationPath	nvarchar(300)	Path on client to application
Executable	nvarchar(100)	Name of executable
Version	nvarchar(50)	Version of executable
Company	nvarchar(100)	Company info from executable resources
Description	nvarchar(200)	Description from executable resources
UsageCount	bigint	Number of Data Collection runs for application

Indexes

PK_TraceApplication (CLUSTERED, Primary Key)

Column	Order
TraceApplicationID	ASC

IX_TraceApplication (NONCLUSTERED, Unique)

Column	Order
Executable	ASC
Version	ASC
ApplicationPath	ASC

TraceApplicationExclusion

Table tracking applications excluded from analysis by a particular user.

Columns

Name	Data Type	Description
UserID	int	Foreign key to TraceUser table of user owning this exclusion
TraceApplicationID	int	Key of excluded application (TraceApplication)
Modified	bit	True if added by user since last pair report generation. This is used for incremental generation of the pair report
Deleted	bit	True if user deleted exclusion - used for incremental generate feature

Foreign Keys

FK_TraceApplicationExclusion_TraceApplication (OnDelete: CASCADE)

Column	Source
TraceApplicationID	TraceApplication(TraceApplicationID)

FK_TraceApplicationExclusion_TraceUser (OnDelete: CASCADE)

Column	Source
UserID	TraceUser(UserID)

Indexes

PK_TraceApplicationExclusion (CLUSTERED, Primary Key)

Column	Order
UserID	ASC
TraceApplicationID	ASC

TraceGlobals

Single row table containing globals for trace data.

Columns

Name	Data Type	Description
TracePaused	bit	If true, personalization servers do not add incoming data to TraceAccess, TraceApplication and TracePath tables even though data collection is enabled. Not currently used by Configuration Assistant.

TraceGroup

Represents the basic unit of comparison for analysis. Individual applications are not compared - instead groups of applications are compared and appear in the TracePairResult table. Trace groups are of 3 types:

- Type 0 is a group with a single application.
- Type 1 is a group containing multiple instances of the same application run from different paths. Since personalization is based on the application name (not the path), each instance must be treated as a single application.
- Type 2 is a group matching a test group created by the user at the time the analysis is run.

Columns

Name	Data Type	Description
Name	nvarchar(100)	Name of application for type 0 and 1 groups. User-entered name for type 2 groups
Version	nvarchar(50)	Version of application for type 0 and 1 groups, else blank
GroupID	int	Integer identifying group
GroupType	tinyint	Type as described above
Description	nvarchar(200)	Description copied from application for type 0 and type 1, user-entered for type 2
UserID	int	Foreign key to TraceUser table of user owning this row

Foreign Keys

FK_TraceGroup_TraceUser (OnDelete: CASCADE)

Column	Source
UserID	TraceUser(UserID)

Indexes

PK_TraceGroup (CLUSTERED, Primary Key)

Column	Order
GroupID	ASC

IX_TraceGroup (NONCLUSTERED, Unique)

Column	Order
UserID	ASC
Name	ASC
Version	ASC

TraceGroupLink

Associates trace groups with applications. Although this is a one-to-many relationship, each user has a separate set of trace groups so the group owning the application cannot be stored in the TraceApplicationTable.

Columns

Name	Data Type	Description
GroupID	int	Foreign key to TraceGroup table
TraceApplicationID	int	Foreign key to TraceApplication table
UserID	int	Foreign key to TraceUser table of user owning this row. Redundant but stored here for efficiency

Foreign Keys

FK_TraceGroupLink_TraceApplication (onDelete: CASCADE)

Column	Source
TraceApplicationID	TraceApplication(TraceApplicationID)

FK_TraceGroupLink_TraceGroup (onDelete: CASCADE)

Column	Source
GroupID	TraceGroup(GroupID)

Indexes

PK_TraceGroupLink (CLUSTERED, Primary Key)

Column	Order
GroupID	ASC
TraceApplicationID	ASC

IX_TraceGroupLinkUserID (NONCLUSTERED)

Column	Order
UserID	ASC

TracePairResult

Contains the results of the last report generation for each user. Each row represents the match between two groups.

Columns

Name	Data Type	Description
UserID	int	Foreign key to TraceUser table of user owning this row
LeftGroupID	int	Foreign key to TraceGroup for left group
RightGroupID	int	Foreign key to TraceGroup for right group
Ranking	int	Ranking of number of matches for this pair
Matches	int	Count of matches - paths both groups touched
AllPaths	int	Count of paths touched by both groups (union of paths)

Foreign Keys

FK_TracePairResult_TraceUser (onDelete: CASCADE)

Column	Source
UserID	TraceUser(UserID)

Indexes

PK_TracePairResult (CLUSTERED, Primary Key)

Column	Order
LeftGroupID	ASC
RightGroupID	ASC
UserID	ASC

IX_Ranking (NONCLUSTERED)

Column	Order
UserID	ASC
Ranking	ASC

IX_TracePairResult_K1_K2_K3 (NONCLUSTERED)

Column	Order
UserID	ASC
LeftGroupID	ASC
RightGroupID	ASC

IX_TracePairResult_K3_K2_K1 (NONCLUSTERED)

Column	Order
RightGroupID	ASC
LeftGroupID	ASC
UserID	ASC

TracePath

Contains paths accessed (registry or file).

Columns

Name	Data Type	Description
TracePathID	int	integer identity of row
PathHash	int	Hash of path (as path is too long for a SQL key)
Path	nvarchar(4000)	Full path accessed (registry or file)
IsRegistry	bit	True if registry path

Indexes

PK_TracePaths (CLUSTERED, Primary Key)

Column	Order
TracePathID	ASC

IX_TraceTracePath (NONCLUSTERED, Unique)

Column	Order
PathHash	ASC

TracePathExclusion

Set of paths excluded from the pair report by a user.

Columns

Name	Data Type	Description
UserID	int	Foreign key to TraceUser table of user owning this row
TracePathID	int	Foreign key to TracePath table of excluded path
IsPreset	bit	True if exclusion is a preset (always present)
Modified	bit	True if added since last report generation (for incremental update)
Deleted	bit	True if deleted since last report generation (for incremental update)

Foreign Keys

FK_TracePathExclusion_TracePath (OnDelete: CASCADE)

Column	Source
TracePathID	TracePath(TracePathID)

FK_TracePathExclusion_TraceUser (OnDelete: CASCADE)

Column	Source
UserID	TraceUser(UserID)

Indexes

PK_TracePathExclusion (CLUSTERED, Primary Key)

Column	Order
TracePathID	ASC
UserID	ASC

IX_TracePathExclusion_K1 (NONCLUSTERED)

Column	Order
UserID	ASC

TracePresetApplicationExclusion

List of applications that are always excluded from pair reports. This table contains values shipped with the database and currently cannot be modified by the Configuration Assistant.

Columns

Name	Data Type	Description
TraceExclusionPattern	nvarchar(200)	Pattern of application name to be excluded, using SQL wildcards % and _

Indexes

PK_TracePresetApplicationExclusion (CLUSTERED, Primary Key)

Column	Order
TraceExclusionPattern	ASC

TracePresetPathExclusion

List of registry paths that are always excluded from pair reports. This table contains values shipped with the database and currently cannot be modified by the Configuration Assistant.

Columns

Name	Data Type	Description
TraceExclusionPattern	nvarchar(200)	Pattern of registry path to be excluded, using SQL wildcards % and _

Indexes

PK_TracePresetPathExclusion (CLUSTERED, Primary Key)

Column	Order
TraceExclusionPattern	ASC

TracePresetPathInclusion

List of registry paths that are restored from exclusions after application of the patterns in TracePresetPathExclusion. This allows for finer granularity, so that a whole key can be excluded but a sub key re-added to the analysis.

Columns

Name	Data Type	Description
TracePresetPathInclusionPattern	nvarchar(200)	Pattern of registry path to be added back,, using SQL wildcards % and _

Indexes

PK_TracePresetPathInclusionPattern (CLUSTERED, Primary Key)

Column	Order
TracePresetPathInclusionPattern	ASC

TraceSessionData

List of registry paths that the user has marked as Session Data. These paths also appear in TracePathExclusion, so the table is a convenience for the Configuration Assistant.

Columns

Name	Data Type	Description
UserID	int	Foreign key to TraceUser table of user owning this row
TracePathID	int	Foreign key to TracePath of registry path marked as Session Data

Foreign Keys

FK_TraceSessionData_TracePath (onDelete: CASCADE)

Column	Source
TracePathID	TracePath(TracePathID)

FK_TraceSessionData_TraceUser (onDelete: CASCADE)

Column	Source
UserID	TraceUser(UserID)

Indexes

PK_TraceSessionData (CLUSTERED, Primary Key)

Column	Order
TracePathID	ASC
UserID	ASC

TraceTestGroup

Contains test groups defined by the user and used to generate type 2 trace groups on the next analysis.

Columns

Name	Data Type	Description
TestGroupID	int	Row identity
Name	nvarchar(150)	User-entered group name
Description	nvarchar(200)	User-entered group description
UserID	int	Foreign key to TraceUser table of user owning this row
TraceGroupID	int	Associated trace group
Modified	bit	Tracks if group was modified between runs, to obviate pair table rebuilds
Deleted	bit	Tracks if group has been deleted, to obviate pair table rebuilds

Foreign Keys

FK_TraceTestGroup_TraceUser (onDelete: CASCADE)

Column	Source
UserID	TraceUser(UserID)

Indexes

PK_TraceTestGroup (CLUSTERED, Primary Key)

Column	Order
TestGroupID	ASC

IX_TraceTestGroup (NONCLUSTERED, Unique)

Column	Order
Name	ASC
UserID	ASC

TraceTestGroupLink

Links test group to applications. This is a one-to-many relationship but only for a single user, so a link table is needed.

Columns

Name	Data Type	Description
TestGroupID	int	Foreign key to TraceTestGroup row
TraceApplicationID	int	Foreign key to TraceApplication table
UserID	int	Foreign key to TraceUser table of user owning this row
Modified	bit	True if row added since last report generation
Deleted	bit	True if row deleted since last report generation

Foreign Keys**FK_TraceTestGroupLink_TraceApplication (onDelete: CASCADE)**

Column	Source
TraceApplicationID	TraceApplication(TraceApplicationID)

FK_TraceTestGroupLink_TraceGroup (onDelete: CASCADE)

Column	Source
TestGroupID	TraceTestGroup(TestGroupID)

Indexes**PK_TraceTestGroupLink (CLUSTERED, Primary Key)**

Column	Order
TestGroupID	ASC
TraceApplicationID	ASC

TraceUser

Contains details of each user of the Configuration Assistant.

Columns

Name	Data Type	Description
UserID	int	Id of user
UserName	nvarchar(100)	Text to identify user - Configuration Assistant uses domain\loginname
BaseApplicationID	int	Maximum index to TraceApplication to be used in analysis. This allows the user to view stable reports while data collection continues
BasePathID	int	Maximum index to TracePath to be used in analysis.
PairsGenerated	bit	True if pair table generated for this user

Indexes

PK_TraceUser (CLUSTERED, Primary Key)

Column	Order
UserID	ASC

IX_TraceUserName (NONCLUSTERED, Unique)

Column	Order
UserName	ASC

User

Represent users on client machines with managed applications. Users are created on demand when a client logs in.

Columns

Name	Data Type	Description
UserPK	uniqueidentifier	Guid identifying user. From 8.3P2 on, this is derived by hashing the Sid.
Name	nvarchar(50)	Login name of user.
Sid	nvarchar(184)	User's security identifier (key of table)
DistinguishedName	nvarchar(400)	Not used
ADObjectId	uniqueidentifier	Not used
CreationTime	datetime	Timestamp of when this record first appeared.
ModifiedTime	datetime	Timestamp of when this record was last modified. Used for concurrency control and optimistic locking
LastLogin	datetime	Time user last logged in
LastLogout	datetime	not used (set to creation time)
DomainName	nvarchar(50)	Domain name part of Name
LoginName	nvarchar(50)	Login name part of Name. This can have a numerical suffix where a user has been removed from AD and a new user with the same name added. The new user will receive a (2) suffix in this field to distinguish his data from the old user's data.
LoginType	smallint	Not supported

Indexes

IX_Users (CLUSTERED)

Column	Order
Name	ASC

PK_Users (NONCLUSTERED, Primary Key)

Column	Order
UserPK	ASC

IX_DomainNameLoginName (NONCLUSTERED)

Column	Order
LoginName	ASC
DomainName	ASC

IX_Sid (NONCLUSTERED, Unique)

Column	Order
Sid	ASC

UserGroup

Called "Personalization Groups" on the console. Contains the managed configuration for a group of users. User group membership derives from membership expressions associated with the user group. User groups also have simple attributes and four lists of associations - managed applications, managed application groups, blacklisted applications and blacklisted application groups. At installation a default group called "Default Users" is created which cannot be deleted.

Columns

Name	Data Type	Description
UserGroupPK	uniqueidentifier	Guid identifying user group. The default group has a well-known guid
Name	nvarchar(50)	Name of group. The default group is called "Default Users"
Description	nvarchar(256)	Free text description
OrderNo	int	Group ordering for display and membership evaluation. Smaller numbers have priority over larger.
OfflineMode	bit	Offline mode enabled
OfflineResiliency	bit	Offline resilience enabled
MigrationMode	bit	Migrate Existing Profiles enabled
ReplicateOnDemand	bit	Not used
Certificate	bit	Manage Certificates enabled
CreationTime	datetime	Timestamp of when this record first appeared.
ModifiedTime	datetime	Timestamp of when this record was last modified. Used for concurrency control and optimistic locking
CreationUser	nvarchar(50)	User who created the row

Name	Data Type	Description
ModifiedUser	nvarchar(50)	User who last modified the row
DiscoverAllProcesses	bit	Automatically Discover User Applications enabled
Desktop	bit	Manage Desktop Settings enabled
SessionData	bit	Enable Session Data enabled
PassiveMode	bit	Enable Data Collection enabled
OfflineRulesMode	bit	If true, and OfflineMode true, offline rules (in Membership) are used to determine whether offline mode is enabled for the user
DynamicOffline	bit	(Future use). When true, endpoints will not clear caches if a logout sync fails. Not settable by the console currently.
InheritSessionData	bit	If true global session data is merged with group-specific session data for this group.
rdndDS_EMXConditions	varbinary(max)	Cached windows settings condition configuration for this user group
PreCache	bit	Only applicable when OfflineMode is enabled. If true then all personalized settings are synchronized on the next user logon and retained in the local cache so that when the machine becomes offline all personalized settings are immediately available.
SyncOnLogOff	bit	Windows Settings synchronized on log off for this group
SyncOnSessionLock	bit	Windows Settings synchronized on session lock for this group
SyncOnSessionDisconnect	bit	Windows Settings synchronized on session disconnect for this group
rdndZippedConfig	varbinary(max)	Cached zipped and concatenated configuration files for this group
CacheTimestamp	datetime	Timestamp of when the zipped config was last written
EndpointSelfServiceRulesMode	int	Endpoint Self-Service membership rules used to enable for this group
MigrationEnabled	bit	Migration mode enabled
MigrationSequenceNumber	int	Sequence number for current migration
MigrationType	int	0 = no migration, 1 = import, 2 = export

Name	Data Type	Description
MigrationForce	bit	If true and MigrationType is import, import overwrites current data
MigrationToFrom	int	0 = local profile, 1 = network share
MigrationPath	nvarchar(max)	Network share path for import from network share
MigrationAppDataPath	nvarchar(max)	If non-null or empty, appdata path for import from network share

Foreign Keys

FK_UserGroup_MigrationType (OnDelete: NO_ACTION)

Column	Source
MigrationType	MigrationTypes(MigrationType)

FK_UserGroup_MigrationToFrom (OnDelete: NO_ACTION)

Column	Source
MigrationToFrom	MigrationSources(MigrationSource)

Indexes

PK_UserGroups (CLUSTERED, Primary Key)

Column	Order
UserGroupPK	ASC

UserGroupAssignedApplication

Associates applications with user groups, specifying whether the application is on the whitelist or blacklist.

Columns

Name	Data Type	Description
UserGroupFK	uniqueidentifier	Foreign key to UserGroup
ApplicationFK	uniqueidentifier	Foreign key to Application
CreationTime	datetime	Timestamp of when this record first appeared.
ModifiedTime	datetime	Timestamp of when this record was last modified. Used for concurrency control and optimistic locking
CreationUser	nvarchar(50)	User who created the row
ModifiedUser	nvarchar(50)	User who last modified the row
RowGuid	uniqueidentifier	Row id for replication

Foreign Keys

FK_UserGroupAssignedApplication_Application (OnDelete: CASCADE)

Column	Source
ApplicationFK	Application(ApplicationPK)

FK_UserGroupAssignedApplication_UserGroup (OnDelete: CASCADE)

Column	Source
UserGroupFK	UserGroup(UserGroupPK)

Indexes

PK_UserGroupAssignedApplications (CLUSTERED, Primary Key)

Column	Order
UserGroupFK	ASC
ApplicationFK	ASC

UserGroupAssignedApplicationGroup

Associates application groups with user groups, specifying whether the group is on the whitelist or blacklist.

Columns

Name	Data Type	Description
UserGroupFK	uniqueidentifier	Foreign key to UserGroup
ApplicationGroupFK	uniqueidentifier	Foreign key to ApplicationGroup
CreationTime	datetime	Timestamp of when this record first appeared.
ModifiedTime	datetime	Timestamp of when this record was last modified. Used for concurrency control and optimistic locking
CreationUser	nvarchar(50)	User who created the row
ModifiedUser	nvarchar(50)	User who last modified the row
RowGuid	uniqueidentifier	Row id for replication

Foreign Keys

FK_GroupAssignedApplications_ApplicationGroups (OnDelete: CASCADE)

Column	Source
ApplicationGroupFK	ApplicationGroup(ApplicationGroupPK)

FK_UserGroupAssignedApplicationGroup_UserGroup (OnDelete: CASCADE)

Column	Source
UserGroupFK	UserGroup(UserGroupPK)

Indexes

PK_UserGroupAssignedApplicationGroups (CLUSTERED, Primary Key)

Column	Order
UserGroupFK	ASC
ApplicationGroupFK	ASC

UserUserGroupStatus

Contains a row of status for each user in a user group. Users who are members of multiple groups will have multiple rows. Note that a user is only a member of a group when he has data in that group from a logon.

Columns

Name	Data Type	Description
UserFK	uniqueidentifier	Foreign key to User
UserGroupFK	uniqueidentifier	Foreign key to UserGroup
StatusBits	int	Integer of status bits. Bit 0 = user's desktop settings requires upgrade to ds version 1 (8.1/8.3) 1 = desktop settings require upgrade to version 2 8.3+. Set to zero on new installs
RowGuid	uniqueidentifier	Row id for replication
LastModified	datetime	Records last time any profile was modified by this user in this group, for web console purposes. Set by trigger on ApplicationProfile table.
MigrationSequenceNumber	int	Migration in progress or completed by this user
MigratedAppsPercent	int	Percentage of ordinary applications migrated
MigratedSharedWSGsPercent	int	Percentage of shared (unconditional) Windows Settings Groups migrated for the user
MigratedConditionalWSGsPercent	int	Percentage of conditional Windows Settings Groups migrated for the user
MigrationErrorCount	int	Count of applications or WSGs with migration errors for the user
MigrationEndpoint	nvarchar(50)	Name of endpoint migration was performed on
LastMigrationTime	datetimeoffset	Time of migration
MigrationAssignedApps	int	Number of migratable applications assigned at migrate time
MigrationAssignedSharedWSGs	int	Number of migratable shared (unconditional Windows Settings Groups assigned at migrate time
UserMoved	bit	If true, user data was moved to another group and migration statistics are ignored

Foreign Keys

FK_UserUserGroupStatus_UserGroup (OnDelete: CASCADE, disabled)

Column	Source
UserGroupFK	UserGroup(UserGroupPK)

FK_UserUserGroupStatus_User (OnDelete: CASCADE)

Column	Source
UserFK	User(UserPK)

Indexes

PK_UserUserGroupStatus (CLUSTERED, Primary Key)

Column	Order
UserFK	ASC
UserGroupFK	ASC