

## EPI Suite® 6.3 Database Description

Table	Required Fields	Primary Keys	Indexes	Description
EPI_PERSON	Person_ID Creation Date Last Modified	Person_ID	Person_ID First_Name Last_Name Company Employee_Number Postal_Code Social_Security Zip_Code	<p>Holds the card holder information.</p> <p>Card information, for a specific person, is accessed through the primary key value, stored in <b>Person_ID</b>.</p> <p>Images in GA_IMAGE, for a specific person, are accessed through the primary key value, stored in <b>Image_Key</b></p> <p><b>Person_ID</b> is a read only field that uniquely identifies the person record.</p> <p><b>Creation Date</b> is automatically generated when the record is created.</p> <p><b>Last Modified</b> is automatically generated when the record is updated.</p>
EPI_CARD	Card_ID Card_Code Card_Status Card_Format_ID Card_Person_ID Description Creation_Date Start_Date End_Date Print_Date Cancelled_Date Num_Prints Last Modified	Card_ID	Card_ID Card_Code Card_Status Card_Format_ID Card_Person_ID Num_Prints	<p>Holds the card information: card code, creation date, expiration date, format, etc.</p> <p>Format information is accessed through the <b>EPI_FORMAT</b> table via the primary key value, stored in <b>Card_Format_ID</b>.</p> <p><b>Card_Code</b> may be automatically generated or entered by the operator. This field contains the data read by the card reader.</p> <p><b>Card_Status</b> is automatically set to "Unprinted" when a new card record is created. It is set to "Valid" after the card has been printed. A user with administrator or a supervisor privileges may change it. (0: Invalid; 1:Valid; 2: Disabled; 3: Unprinted; 4:Expired, not known destroyed; 5: Expired, known destroyed; 6: Cancelled, not known destroyed; 7: Cancelled, known destroyed; 8: Lost; 9: Front printed; 10: Back printed; 11: Printed, not validated; 12: Unknown)</p> <p><b>Creation_Date</b> is automatically generated when the card record is created.</p> <p><b>Start_Date</b> must be entered by the operator. If a value is</p>

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				<p>present, it is used to validate the card.</p> <p><b>End_Date</b> must be entered by the operator. If a value is present, it is used to validate the card.</p> <p><b>Print_Date</b> is automatically generated when the card record is printed.</p> <p><b>Num_Prints</b> originally set to 0 when the card record is created. Each time the card record is printed, this value is incremented by 1.</p> <p><b>Last Modified</b> is automatically generated when the record is updated.</p>
EPI_FORMAT	All	Format_ID	Format_ID Format_Name	<p>Holds the information specific to the card format: file to use, name, card code generation method, etc.</p> <p><b>Format_Name</b> is used to reference the format in the GuardCard application.</p> <p><b>Format_Range_High</b> is the maximum value the card code may take. The operator may define it when registering the format.</p> <p><b>Format_Range_Next</b> is the next card code to use in the currently defined sequence. It is set originally by the operator when registering the format.</p> <p><b>Format_Range_Field</b> is the field name of the <b>GA_PERSON</b> table to use as the source of the card code.</p> <p><b>Format_Range_Type</b> indicates the type of card code generation that will be done (0: entered manually; 1: generated automatically; 2: copied from person's record; 3: generated by combining values; 4: ISO/EIC7812 numbering system)</p> <p><b>Format_Layout</b> is the GDR file to use for this card record.</p>
GA_IMAGE	All Last Modified	Image_Key Image_Type Image_Version Segment_Num		<p>Holds the image data.</p> <p><b>Image_Key</b> The key the application uses to specify an image for a particular card or person</p> <p><b>Image_Type</b> Image characteristics are access through the value of table <b>GA_IMAGEINFO</b> primary key, stored in <b>Image_Type</b> (Usually 0: Photograph; 2: Signature 4: Finger Print).</p>

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GA_IMAGEINFO	All	Image_ID	Image_ID Image_Name	<p><b>Image_Version</b> is set to 0 for the actual image and 1 for a thumbnail copy of the image.</p> <p><b>Segment_Num</b> is the sequence of the current image segment (0: first segment, 1: second segment, etc.) within the blob (large binary object).</p> <p><b>Image_Format</b> is the format used to compress the stored image (0: no image; 1: BMP/DIB; 2: Reserved; 3: JPEG; 4: ; 5: Monochrome compressed; 6: Reserved; 7: LZW compressed; 8: Datacard signature)</p> <p><b>Blob_Segment</b> is the image data or a section of it.</p> <p><b>Total_Size</b> is the complete image size.</p> <p><b>File_Name</b> External file containing the image. Only valid if the image is stored as a file reference, not a BLOB</p> <p><b>File_Volume_Num</b> Volume serial number of the disk volume on which the image file resides. Only valid if the image is stored as a file reference, not a BLOB. Used to identify the disk if the file is on a removable drive. NOTE: This field is not currently used by EPI Suite.</p> <p><b>File_Volume_Name</b> Label of the disk volume on which the image file resides. Only valid if the image is stored as a file reference, not a BLOB. Used to prompt the user to insert the disk, if the file is on a removable drive. NOTE: This field is not currently used by EPI Suite.</p> <p><b>Last Modified</b> is automatically generated when the image is created or updated.</p> <p>Holds the characteristics of the image types.</p> <p><b>Image_Name</b> is the name by which the image type is referenced in the application (Photograph, Small Photo, Signature).</p> <p><b>Image_Format_Scheme</b> is the format to use to store an image if this type. The format type is copied to the image record in <b>GA_IMAGE</b>. (see <b>Image_Type</b>)</p> <p><b>Image_Max_Size</b> is the maximum size an image will be allowed to be in the database. Higher compression rates will be applied until this value is not exceeded.</p>

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				<p><b>Image_Aspect_X</b> is the horizontal component of the aspect ratio of the image.</p> <p><b>Image_Aspect_Y</b> is the vertical component of the aspect ratio of the image.</p> <p><b>Image_Max_Size</b>. This option is used when the image type is Windows BMP/DIB.</p> <p><b>Image_Format_Quality</b> indicates the quality level of the JPEG compression. Ranges from 2 (best quality, slow compression) to 99 (poor quality, fast compression).</p> <p><b>Image_Format_Subsample</b> is the type of YUV subsampling done. It may be a value of 1 (4:4:4), 2 (4:2:2), or 3 (4:1:1). The latter resulting in a higher compression. The first digit refers to the subsampling done in the luminance (details) signal, the last two in the chrominance (color) signals.</p> <p><b>Image_Thumbnail_Height</b> is the height, in pixels, at which the image is displayed on the screen.</p> <p><b>Image_Thumbnail_Width</b> is the width, in pixels, at which the image is displayed on the screen.</p> <p><b>Image_Format_Scheme</b> If Format Scheme is Specific, the bit depth the image will be saved in. Values are dependent on the actual format.</p> <p><b>Image_Format_BitDepth</b> If Format Scheme is Specific, the bit depth the image will be saved in. Values are dependent on the actual format.</p> <p><b>Image_Storage_Scheme</b> Specifies if the images are stored on disk as file-refs or in the database. 0=Don't care store them where requested. 1=Store them in database as Blobs. 2 = Store them in database as FileRefs.</p> <p><b>Image_Storage_Path</b> If storage scheme is Disk=2, the path where new images will be saved when performing an Add.</p> <p><b>Image_Storage_AutoSubDirs</b> Specifies if sub-directories will be created automatically=1 or not=0. Default is True=1. This is needed to compensate for the poor performance of the Windows FAT.</p>

Table	Required Fields	Primary Keys	Indexes	Description
EPI_CONFIG	All	Cfg_User Cfg_Level Cfg_Section Cfg_Name	Cfg_Level Cfg_User	Hold various EPI Suite configuration settings including visible person/card fields and default card format. <b>Cfg_User</b> setting to apply for a specific user name or [all] applies to all users. <b>Cfg_Level</b> set to 0. <b>Cfg_Section</b> is the configuration section name. <b>Cfg_Name</b> is the setting name. <b>Cfg_Value</b> is the actual value.
GA_ALIAS	All	Id	Alias_Name Field_Name Table_Name	Field aliases are defined in the GA_ALIAS table. It contains one record for each data field (or hidden data field) that has an alias. <b>Id</b> A long integer that represents a unique identifier for each entry. <b>Table_Name</b> The name of a card data table. <b>Field_Name</b> The name of a column in the table. <b>Alias_Name</b> ALIAS_NAME – The alias name to be used in place of the actual name of the column. This may be set to null, with no alias specified, to mark the column as hidden. <b>Visible</b> A long integer that represents if the column is visible to the user (1), or hidden (0).
GA_FK	All	FK_Table_Name PMK_Table_Name FK_Order		<b>FK_Table_Name</b> The name of the table that contains a foreign key that refers to the primary table (PMK_TABLE_NAME). <b>FK_Order</b> An index that indicates the order of the primary and foreign key columns (for keys that consist of more than one column). The first key column is 0. <b>FK_Field_Name</b> <b>FK_FIELD_NAME</b> The name of the foreign key column in FK_TABLE_NAME that corresponds to the primary key column (PMK_FIELD_NAME). <b>PMK_Table_Name</b> PMK_TABLE_NAME The name of the primary table. The primary and foreign keys of this table must be defined in the GA_PMK table. <b>PMK_Field_Name</b> PMK_FIELD_NAME The name of a primary key column in the primary table (PMK_TABLE_NAME).

Table	Required Fields	Primary Keys	Indexes	Description
GA_LAYOUTFIELDS	All			Reserved. Do not delete.
GA_LOGARCHIVE	All	Log_ID Log_Date		Archived log table. Holds the information related to logged events in GuardCard and GuardView and archived from the GA_LOG table. <b>Log_ID</b> Refer to GA_LOG for fields descriptions <b>Operator_ID, Station_ID</b> <b>Log_Date, Event, Person_ID</b> <b>Card_ID, Card_Code, Info1</b> <b>Info2, Info3, Info4</b>
GA_PMK	All	Table_Name Key_Order Field_Name		Primary key columns for each card data table are defined in the GA_PMK table. <b>Table_Name</b> is the name of the card data table. <b>Key_Order</b> An index that indicates the order of the primary key columns (for primary keys that consist of more than one column). The first key column is 0. <b>Field_Name</b> The name of a primary key column in the specified table.
GA_TABLENAMES	All	Id	Table_Name	The GA_TABLENAMES table is used to locate the card data stored in the EPI Suite database. <b>Id</b> is a long integer that represents a unique identifier for each entry. The ID numbers are consecutive for each record, beginning at 1. The first record specifies the main (or only) card data table. Negative values for ID are reserved for use by EPI Suite. <b>Table_Name</b> The name of a card data table.
GA_COLNAMES	All	ID		Allows all of the table and column names in the database to be customized. <b>Id</b> A long integer that represents a unique EPI Suite column. This value is generated and maintained by the GuardTool Database Utility. <b>Column_Name</b> The new name to use for the specified column.
EPI_DBCONFIG	All	Id		Hold EPI Suite SDK configuration information on how to access the database.

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				<p><b>Connect_Type</b> is the Database Connection model, 0 means both card data and images are stored in the EPI Suite database. Only this model is currently supported by EPI Suite.</p> <p><b>Valid_Config</b> is set to 1 to indicate database configuration has been set properly.</p> <p><b>Version</b> The version number of the EPI Suite database schema. It does not match the product version number.</p>
GA_LOG	All	Log_ID	Log_ID Log_Date Operator_ID Station_ID Person_ID Card_ID Card_Code	<p>Log table.</p> <p>Holds the information related to logged events in GuardCard and GuardView.</p> <p><b>Operator_ID</b> is the user name of the last operator who logged in at the time of the logging.</p> <p><b>Station_ID</b> is the computer name of the machine on which the logged operation was done.</p> <p><b>Log_Date</b> is the date and time of the event.</p> <p>Event is a description of the event type (Add Card, Add Person, Batch Delete Cards, Batch Delete Images, Batch Delete Persons, Card Check, Change Card Status, Delete All Cards, Delete All Images, Delete Card, Delete Card Format, Delete Image, Delete Person, Login, Logout, Print Card, Save Image, Update Card, Update Person, Video Capture)</p> <p>All log entries have a value for <b>Operator_ID</b>, <b>Station_ID</b>, <b>Log_Date</b>, and <b>Event</b>.</p> <p><b>Person_ID</b> is the primary key value of the card holder record associated with the event.</p> <p>All log entries, except 'Login' and 'Logout' have a value for <b>Person_ID</b>.</p> <p><b>Card_ID</b> is the primary key value of the card record associated with the event.</p> <p><b>Card_Code</b> is the card number of the card associated with the event.</p> <p><b>Card_ID</b> and <b>Card_Code</b> are used with: Check Card, Add Card, Delete Card, Update Card, Change Card Status, and</p>

Table	Required Fields	Primary Keys	Indexes	Description
				<p>Print Card.</p> <p>The <b>Info?</b> fields are used as follows:</p> <p>For the events Login and Logout, the field Info1 holds the application name.</p> <p>For the event Card Check,</p> <p><b>Info1</b> = 'valid' or 'invalid'</p> <p><b>Info2</b> = card reader port used or the string 'manual' if the card code was entered through the keyboard.</p> <p><b>Info4</b> = the name of the file containing the captured image or a video clip.</p> <p>For the event Change Card Status,</p> <p><b>Info1</b>= the previous status</p> <p><b>Info2</b>= the new status</p> <p>For the events Add Image, Delete Image, Update Image,</p> <p><b>Info1</b>= the image type ('Photograph' or 'Signature')</p> <p>For the event Print Card,</p> <p><b>Info1</b>= card side printed ('Front', 'Back', or 'Both sides')</p>
GA_READER	All	Rdr_ID	Rdr_ID Rdr_Name	<p>Reference table.</p> <p>This table holds the description of the reader types. The reader properties (reader type, reader port, port settings) are stored in the INI files.</p> <p><b>Rdr_Name</b> holds the name by which the reader is referenced in the application (GuardCard, GuardView). This name is stored in the INI file.</p> <p><b>Rdr_Code_Type</b> obsolete field replaced by Rdr_Decoder.</p> <p><b>Rdr_Decoder</b> holds the predefined reader types. 'code39', 'magtek', 'hyperx'</p> <p><b>Rdr_Init_String</b> holds the initialization string to use.</p> <p><b>Rdr_Ack_String</b> holds the acknowledge string to use.</p> <p><b>Rdr_Default_Com</b> holds the default com port settings.</p> <p><b>Rdr_Has_Start_Char</b> identifies whether the string sent by the reader has a start character.</p> <p><b>Rdr_Start_Char</b> holds the start character of the string sent by the reader.</p> <p><b>Rdr_Data_Timeout</b> holds the timeout value after which</p>



Table	Required Fields	Primary Keys	Indexes	Description
				<p>the application will consider that all the required data has been received.</p> <p><b>Rdr_Data_Max_Size</b> holds the value of the maximum number of characters the application should expect from the reader.</p> <p><b>Rdr_Has_End_Char</b> identifies whether the string sent by the reader has an end character.</p> <p><b>Rdr_End_Char</b> holds the end character of the string sent by the reader.</p> <p><b>Rdr_Decoder</b> holds the data format used.</p> <p><b>Rdr_Options</b> holds the options selected for the current data format.</p>
GA_LIST	All	List_ID	List_ID	<p>Reference table.</p> <p>This table holds the information related to drop down list box defined by the user.</p> <p><b>Data_Table</b> holds the name of the table where the selected information will be stored (GA_CARD or GA_PERSON)</p> <p><b>Data_Column</b> holds the name of the column where the selected information will be stored.</p> <p><b>List_Type</b> holds a value of 1 or 2 respectively indicating a list taken from an existing table or a list defined by the user.</p> <p><b>List_Table</b> holds the name of the existing table to use.</p> <p><b>List_Column</b> holds the name of the existing column to use.</p> <p><b>Auto_Sort</b> indicates whether the list must be sorted.</p>
GA_LISTDATA	All	List_ID List_Index	List_ID List_Index	<p>Reference table.</p> <p>Holds the user defined drop down list values.</p>

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