



*Specification Manual
MS-SQL-Oracle Gateway*



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ORACLE-MSSQL Interface

Details and Function

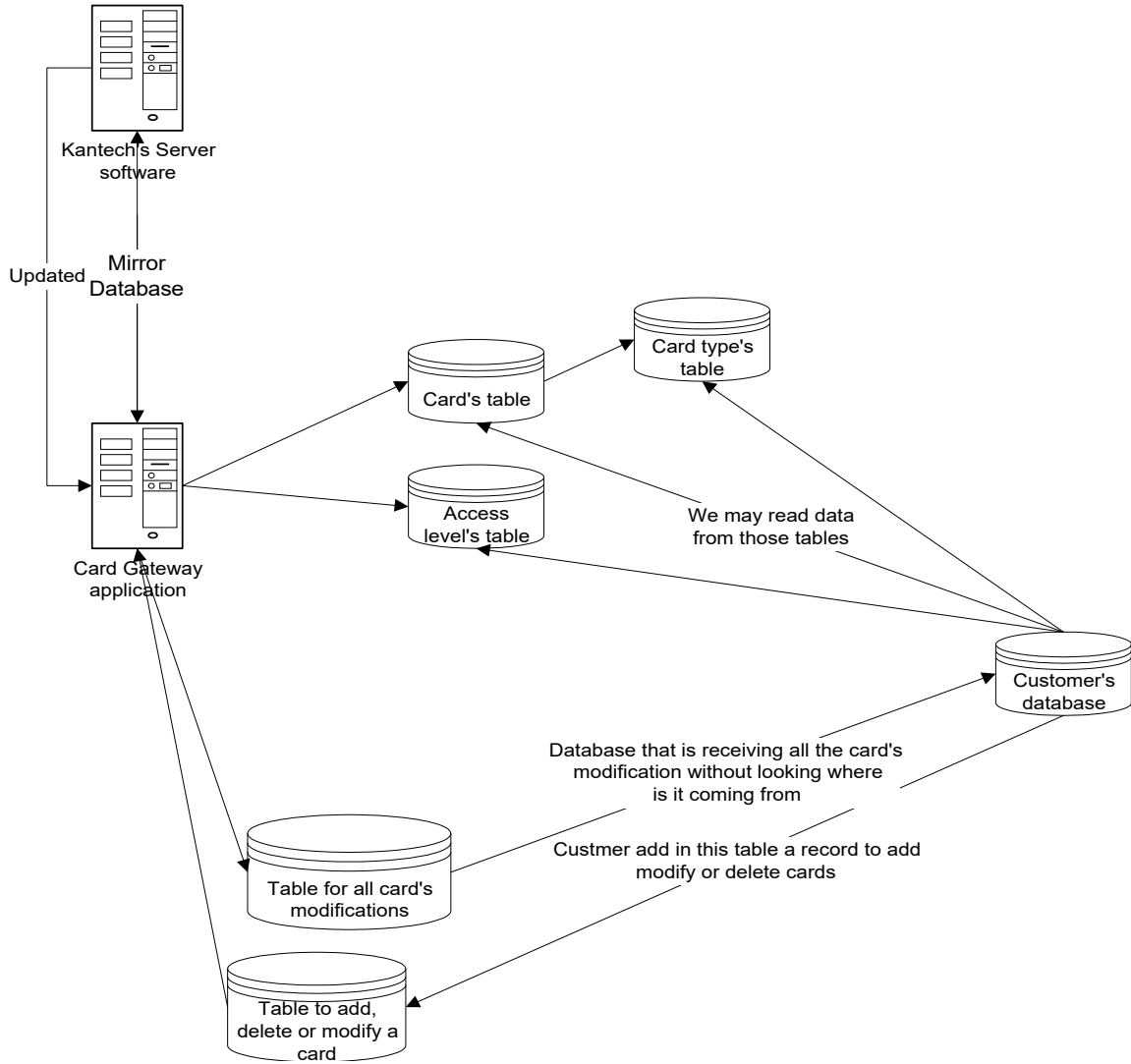
In an access control systems context, the integrity of the database is a main concern. That is why the EntraPass Global is not giving a direct access to the system's database. Added to this, the links between each component make it so hard to follow and understand that the concern would be almost impossible for an end-user to do any kind of modifications.

In order to make things easier, we developed an external interface where the customer will be able to make modifications on the card's database through an Oracle or MS-SQL tables. The interface used is named the Card Gateway, that application may be installed and run on the server's computer.

Please find below the structure schematic.

ORACLE-MSSQL Interface

Schematic



ORACLE-MSSQL Interface

Structure : Card's table

Column Name	Datatype	Length	Precision	Scale	Allow Nulls	Default Value	Identity	Identity Seed	Identity Increment	Is RowGuid
PkCard	int	4	10	0	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
CardNumber	char	16	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
UserName	char	40	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
CardInfo1	char	40	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
CardInfo2	char	40	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
CardInfo3	char	40	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
CardInfo4	char	40	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
CardInfo5	char	40	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
CardInfo6	char	40	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
StartDate	datetime	8	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
UsingEndDate	smallint	2	5	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
EndDate	datetime	8	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
DeleteWhenExpired	smallint	2	5	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
Trace	smallint	2	5	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
SupervisorLevel	smallint	2	5	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
CardState	smallint	2	5	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
WaitForKeypad	smallint	2	5	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
KeypadValue	int	4	10	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
KeypadIndex8000	smallint	2	5	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
PictureType	smallint	2	5	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
FkCardType	int	4	10	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
Picture	image	16	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
Comment	text	16	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
CreationDate	datetime	8	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
ModificationDate	datetime	8	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
State	int	4	10	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>

Structure : Card type table

Column Name	Datatype	Length	Precision	Scale	Allow Nulls	Default Value	Identity	Identity Seed	Identity Increment	Is RowGuid
PkCardType	int	4	10	0	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
Description1	char	40	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
Description2	char	40	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
State	int	4	10	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>

Structure : Access level group table

Column Name	Datatype	Length	Precision	Scale	Allow Nulls	Default Value	Identity	Identity Seed	Identity Increment	Is RowGuid
PkCardAccessGroup	int	4	10	0	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
Description1	char	40	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
Description2	char	40	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
State	int	4	10	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>

Those three tables are updated in real-time. They are containing the same information as the system's tables.



ORACLE-MSSQL Interface

Structure : Table to add, delete or modify a card

<p><u>PkTransactionIn</u> : Integer - Sequential primary key</p> <p><u>CardNumber</u> : Character string 16 digits - Card's number following the card format</p> <p><u>UserName</u> : Character string 50 digits - User's name</p> <p><u>CardInfo1</u> : Character string 50 digits - Card information # 1 under cards</p> <p><u>CardInfo2</u> : Character string 50 digits - Card information # 2 under cards</p> <p><u>CardInfo3</u> : Character string 50 digits - Card information # 3 under cards</p> <p><u>CardInfo4</u> : Character string 50 digits - Card information # 4 under cards</p> <p><u>CardInfo5</u> : Character string 50 digits - Card information # 5 under cards</p> <p><u>CardInfo6</u> : Character string 50 digits - Card information # 6 under cards</p> <p><u>CardInfo7</u> : Character string 50 digits - Card information # 7 under cards</p> <p><u>CardInfo8</u> : Character string 50 digits - Card information # 8 under cards</p> <p><u>CardInfo9</u> : Character string 50 digits - Card information # 9 under cards</p> <p><u>CardInfo10</u> : Character string 50 digits - Card information #10 under cards</p> <p><u>StartDate</u> : Date - Start date</p> <p><u>UsingEndDate</u> : integer - 0=NO,1=YES</p> <p><u>EndDate</u> : Date - End Date</p> <p><u>DeleteOnExpired</u> : integer - 0=NO,1=YES</p> <p><u>Trace</u> : integer - 0=NO,1=YES</p> <p><u>SupervisorLevel</u> : integer - 0 to 16</p> <p><u>CardState</u> : integer - 0=valid,1=invalid,2=stolen,3=pending,4=expired (3 is generated by the system in regards with the start date)</p> <p><u>WaitForKeypad</u> : integer - 0=NO,1=YES</p> <p><u>KeypadValue</u> : integer - Not Used</p> <p><u>KeypadIndex8000</u> : integer - Used by the system</p> <p><u>CardComment</u> : Character string 250 digits - Comment in text format or memo</p> <p><u>CreationDate</u> : Date - Creation Date</p> <p><u>ModificationDate</u> : Date - Modification Date</p> <p><u>ModificationCount</u> : Entier - Amount of modification</p> <p><u>PictureType</u> : integer - Picture type : 0=no picture,1=BMP,2=EPS,3=GIF,4=JPG,5=PCX,6=PNG,7=TGA,8=TIF</p> <p><u>Picture</u> : BLOB - Picture in BLOB format</p> <p><u>rPicture</u> : LONG RAW - Photo in LONG RAW format</p> <p><u>FkCardType</u> : Integer - Card type index</p> <p><u>FkCardAccessGroup</u> : integer - Access level group index</p> <p><u>CardTransaction</u> : integer - 0=update,1=delete</p>



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ORACLE-MSSQL Interface

The card number is related to the card format (example HH :HHHH)

Here is the field's list that the customer can use as he wish, meaning the fields that are not related to the operation. The others fields would need to be filled out according to the functionality that we want to assign. Example, StartDate may contains a date where the card will be valid.



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ORACLE-MSSQL Interface

Structure : table that gives a return on any card modification

Column Name	Datatype	Length	Precision	Scale	Allow Nulls	Default Value	Identity	Identity Seed	Identity Increment	Is RowGuid
PKout	int	4	10	0	<input type="checkbox"/>		<input checked="" type="checkbox"/>	1	1	<input type="checkbox"/>
CardNumber	char	16	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
UserName	char	40	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
CardInfo1	char	40	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
CardInfo2	char	40	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
CardInfo3	char	40	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
CardInfo4	char	40	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
CardInfo5	char	40	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
CardInfo6	char	40	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
StartDate	datetime	8	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
UsingEndDate	smallint	2	5	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
EndDate	datetime	8	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
DeleteWhenExpired	smallint	2	5	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
Trace	smallint	2	5	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
SupervisorLevel	smallint	2	5	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
CardState	smallint	2	5	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
WaitForKeypad	smallint	2	5	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
KeypadValue	int	4	10	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
PictureType	smallint	2	5	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
FkCardType	int	4	10	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
Picture	image	16	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
Comment	text	16	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
CreationDate	datetime	8	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
ModificationDate	datetime	8	0	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
State	int	4	10	0	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>

ORACLE-MSSQL Interface

Setting for the Card Gateway interface - MSSQL(ORACLE) – is done in 2 steps

1. The configuration of the card gateway setting is done from a workstation.
 - We need to indicate the MS-SQL (oracle) server's name
 - We need to indicate in which manner we will access the MS-SQL (Oracle) server. If the field "Use the SQL administrator's password" is not checked, the customer needs to program a user name = "kantech with the password" = kantech in the SQL server. If it is checked, the customers needs to provide the user name and the password of an existing administrator that have access to the SQL server. This will enable the feature where the Kantech application will entered his own user name "KANTECH" and his own password "KANTEC" in the SQL server.
2. Configuring the MS-SQL server (ORACLE)
 - With the case where the field « use the SQL administrator 's password » is not checked, the customer will need to :
 1. Do a login (as administrator) on is server
 2. Create a database that have the « KanCard » as a name.
 3. Create a user that have a KANTECH user name and a KANTECH password.
 4. Assign the OWNER user right to that user.
3. If you are using an Oracle database, make sure to select the correct server version from the workstation configuration (V7.3 or V8) as the BDE version will change. ***If the wrong version is selected the interface may not connect to the Oracle database.***