Abstract

This document describes how to create a Contact tab in the CIC client based on customer data stored in a SQL database or similar repository. It includes data definitions for the Contacts table, SpeedDialList table, and SpeedDial table. It also provides Contact Schema installation scripts for SQL Server and Oracle.

For the latest version of this document, see the PureConnect Documentation Library at: http://help.genesys.com/cic.

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Introduction to Custom ODBC Contact Directories

This document describes how to create a Contact tab in the CIC client based on customer data stored in a SQL database or similar repository.

CIC clients

Customer Interaction Center (CIC) supports two interaction management client applications. This documentation uses the term CIC client to refer to either Interaction Connect or Interaction Desktop.

DataManager

DataManager is the CIC subsystem that services contact and speed dial requests from the CIC client. Besides the SQL Server contact database that CIC ships with, DataManager can use contact data from multiple sources, including Outlook contacts, Exchange address books, and any ODBC-compliant data source that contains a contact schema equivalent to the base CIC contact schema (often accomplished by views).

You must configure each contact data source for DataManager in Interaction Administrator, both as a generic CIC data source, and as a DataManager data source. In addition, each ODBC-based data source must also be configured in the ODBC setup panel.

Contact Data

The DataManager contact system architecture has limited extensibility. Arrange your contact data table to look almost exactly like the CIC Contacts table. Specifically, give the columns the same names, and compatible types and lengths.

You could set up a view to achieve compatibility. However, a view is not always possible, depending on the schema and data formatting differences. In cases where a view is not possible, you can create another table that you periodically update.

Data Types and Lengths

The data types in your table/view do not have to match the data types in the CIC Contacts table exactly; however, they must be similar types. For example, the data type of the BusinessCity field in the Contacts table is nvarchar. Your BusinessCity field could be varchar, char, or nchar (or any other string type supported by your data provider).

Similarly, the data lengths don't have to match exactly. For example, the declared data length of the BusinessCity field in the Contacts table is 30 characters (that is, nvarchar(30)). Your BusinessCity field could safely have a declared length greater than or equal to 30. It might also be able to have a declared length less than 30, but you run the risk of data truncation errors, since the CIC GUIs will not know that shorter limits are in effect.

Configuration

Configure a CIC Data Source for your data provider and source. See IC Data Source Configuration in Interaction Administrator help in the PureConnect Documentation Library.

You also need to configure a Data Manager Contact List Source. Configure it exactly like the IC Public Contacts source (or CIC Private Contacts if you are adding a private directory) except:

- Configure it to use your CIC Data Source.
- Set TABLE=yourTableOrViewName entry in the Additional Information field (unless your table/view name is also Contacts, and you are relying on the qualifier to distinguish your table/view from the CIC table).

Speed Dials

Since speed dial entries can come from multiple data sources, there is little need to have your own SpeedDial and/or SpeedDialList tables. In other words, use CIC tables in most cases. In the rare case where you want to take over the speed dial tables, the data source to use for them can be configured in the main DataManager Configuration page (only one speed dial source is permitted).
Data Definitions

The following is a description of the CIC tables used to store contact data.

## Contacts table

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Type</th>
<th>Length</th>
<th>NULLABLE</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>nvarchar</td>
<td>25</td>
<td>NOT NULL</td>
<td>This is the unique ID for the row. DataManager uses an algorithm that incorporates a timestamp, a server instance id (usually zero), and an auto-incremented value to generate the ID:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td><code>CString DATAMANAGER_DLL DMGetUniqueID(int instanceId)</code></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>`{</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>static long s_nCounter;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CTime t = CTime::GetCurrentTime();</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>long nCounter = InterlockedIncrement(&amp;s_nCounter) % 10000;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CString strId;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>strId.Format(_T(&quot;%04d%02d%02d%02d%02d%04d%04d&quot;),</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(int)(t.GetYear()),</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(int)(t.GetMonth()),</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(int)(t.GetDay()),</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(int)(t.GetHour()),</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(int)(t.GetMinute()),</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(int)(t.GetSecond()),</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>nCounter,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>instanceId);</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>return strId;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>} // DMGetUniqueID</td>
</tr>
<tr>
<td>Owner</td>
<td>nvarchar</td>
<td>25</td>
<td>NULL</td>
<td>The creator/owner of the contact. This must be a valid IC user ID (e.g. &quot;TomH&quot;).</td>
</tr>
<tr>
<td>Access</td>
<td>int</td>
<td>NULL</td>
<td>(AccessFlags for Oracle) - The access flags bit mask value. The flags are:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td><code>#define DM_ACCESS_NONE 0x00000000</code></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td><code>#define DM_ACCESS_READ 0x00000001</code></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td><code>#define DM_ACCESS_INSERT 0x00000002</code></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td><code>#define DM_ACCESS_UPDATE 0x00000004</code></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td><code>#define DM_ACCESS_DELETE 0x00000008</code></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td><code>#define DM_ACCESS_RENAME 0x00000010</code></td>
</tr>
<tr>
<td>Name</td>
<td>nvarchar</td>
<td>64</td>
<td>NULL</td>
<td>Display name for this contact (e.g. &quot;Tom Hynes&quot;).</td>
</tr>
<tr>
<td>LastName</td>
<td>nvarchar</td>
<td>30</td>
<td>NULL</td>
<td>Last name.</td>
</tr>
<tr>
<td>FirstName</td>
<td>nvarchar</td>
<td>30</td>
<td>NULL</td>
<td>First name.</td>
</tr>
<tr>
<td>Company</td>
<td>nvarchar</td>
<td>64</td>
<td>NULL</td>
<td>Company name.</td>
</tr>
<tr>
<td>Title</td>
<td>nvarchar</td>
<td>32</td>
<td>NULL</td>
<td>Contact’s title (e.g. “Software Engineer”).</td>
</tr>
<tr>
<td>Department</td>
<td>nvarchar</td>
<td>64</td>
<td>NULL</td>
<td>Contact’s department name.</td>
</tr>
<tr>
<td>Column</td>
<td>Data Type</td>
<td>Length</td>
<td>Null</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------</td>
<td>--------</td>
<td>------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>BusinessAddress</td>
<td>nvarchar</td>
<td>128</td>
<td>NULL</td>
<td>Contact’s business address (e.g. “7601 Interactive Way”); can be multi-lined.</td>
</tr>
<tr>
<td>BusinessCity</td>
<td>nvarchar</td>
<td>30</td>
<td>NULL</td>
<td>Contact’s business city.</td>
</tr>
<tr>
<td>BusinessState</td>
<td>nvarchar</td>
<td>6</td>
<td>NULL</td>
<td>Contact’s business state/province.</td>
</tr>
<tr>
<td>BusinessZip</td>
<td>nvarchar</td>
<td>15</td>
<td>NULL</td>
<td>Contact’s business zip (5 or 9 digit).</td>
</tr>
<tr>
<td>BusinessCountry</td>
<td>nvarchar</td>
<td>30</td>
<td>NULL</td>
<td>Contact’s business country.</td>
</tr>
<tr>
<td>BusinessEMail</td>
<td>nvarchar</td>
<td>128</td>
<td>NULL</td>
<td>Contact’s business email address.</td>
</tr>
<tr>
<td>Assistant</td>
<td>nvarchar</td>
<td>64</td>
<td>NULL</td>
<td>Contact’s business assistant name.</td>
</tr>
<tr>
<td>HomeAddress</td>
<td>nvarchar</td>
<td>128</td>
<td>NULL</td>
<td>Contact’s home address (e.g. “1 Elm St.”); can be multi-lined.</td>
</tr>
<tr>
<td>HomeCity</td>
<td>nvarchar</td>
<td>30</td>
<td>NULL</td>
<td>Contact’s home city.</td>
</tr>
<tr>
<td>HomeState</td>
<td>nvarchar</td>
<td>6</td>
<td>NULL</td>
<td>Contact’s home state/province.</td>
</tr>
<tr>
<td>HomeZip</td>
<td>nvarchar</td>
<td>15</td>
<td>NULL</td>
<td>Contact’s home zip (5 or 9 digit).</td>
</tr>
<tr>
<td>HomeCountry</td>
<td>nvarchar</td>
<td>30</td>
<td>NULL</td>
<td>Contact’s home country.</td>
</tr>
<tr>
<td>HomeEMail</td>
<td>nvarchar</td>
<td>128</td>
<td>NULL</td>
<td>Contact’s home email.</td>
</tr>
<tr>
<td>BusinessPhone</td>
<td>nvarchar</td>
<td>80</td>
<td>NULL</td>
<td>Contact’s primary business phone number.</td>
</tr>
<tr>
<td>BusinessPhone2</td>
<td>nvarchar</td>
<td>80</td>
<td>NULL</td>
<td>Contact’s secondary/alternate business phone number.</td>
</tr>
<tr>
<td>HomePhone</td>
<td>nvarchar</td>
<td>80</td>
<td>NULL</td>
<td>Contact’s primary home phone number.</td>
</tr>
<tr>
<td>HomePhone2</td>
<td>nvarchar</td>
<td>80</td>
<td>NULL</td>
<td>Contact’s secondary/alternate home phone number.</td>
</tr>
<tr>
<td>Mobile</td>
<td>nvarchar</td>
<td>80</td>
<td>NULL</td>
<td>Contact’s mobile/cell phone number.</td>
</tr>
<tr>
<td>Fax</td>
<td>nvarchar</td>
<td>80</td>
<td>NULL</td>
<td>Contact’s fax number.</td>
</tr>
<tr>
<td>Pager</td>
<td>nvarchar</td>
<td>80</td>
<td>NULL</td>
<td>Contact’s pager number.</td>
</tr>
<tr>
<td>AssistantPhone</td>
<td>nvarchar</td>
<td>80</td>
<td>NULL</td>
<td>Contact’s assistant’s phone number.</td>
</tr>
<tr>
<td>URL</td>
<td>nvarchar</td>
<td>255</td>
<td>NULL</td>
<td>Contact’s web URL (usually of his/her company).</td>
</tr>
<tr>
<td>PrimaryNumber</td>
<td>nvarchar</td>
<td>2</td>
<td>NULL</td>
<td>A one or two-letter code indicating the primary/preferred contact method:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;B&quot; = Business Phone</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;B2&quot; = Business Phone 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;H&quot; = Home Phone</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;H2&quot; = Home Phone 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;M&quot; = Mobile Phone</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;F&quot; = Fax</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;P&quot; = Pager</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;A&quot; = Assistant Phone</td>
</tr>
<tr>
<td>Notes</td>
<td>nvarchar</td>
<td>2000</td>
<td>NULL</td>
<td>Free-form, multi-lined, comment field.</td>
</tr>
<tr>
<td>Password</td>
<td>nvarchar</td>
<td>12</td>
<td>NULL</td>
<td>The Web Services password; no longer used in IC 2.3+ with Tracker licensed.</td>
</tr>
</tbody>
</table>

1 All phone numbers should be in the Standardized Format (e.g. +13178723000) if Reverse White Page (RWP) lookups will be performed against this source

**SpeedDialList table**
### SpeedDial table

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Type</th>
<th>Length</th>
<th>NULLABLE</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>nvarchar</td>
<td>25</td>
<td>NOT NULL</td>
<td>Unique ID for the row (refer to the ID column of the Contacts table for format information).</td>
</tr>
<tr>
<td>ListID</td>
<td>nvarchar</td>
<td>25</td>
<td>NOT NULL</td>
<td>ID field of the SpeedDialList entry (refer to the ID column of the Contacts table for format information).</td>
</tr>
<tr>
<td>ContactSource</td>
<td>nvarchar</td>
<td>64</td>
<td>NOT NULL</td>
<td>DataManager Contact List Source name to be used when looking up the contact.</td>
</tr>
<tr>
<td>ContactID</td>
<td>nvarchar</td>
<td>255</td>
<td>NOT NULL</td>
<td>ID to use when looking up the contact; Since speed dial contacts can come from various data sources (e.g. MAPI, LDAP, etc.), there is no fixed format for this field - it is specific to the source.</td>
</tr>
<tr>
<td>SpeedDialNumber</td>
<td>nvarchar</td>
<td>2</td>
<td>NULL</td>
<td>A one or two-letter code indicating which number to use when dialing the contact:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;B&quot; = Business Phone</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;B2&quot; = Business Phone 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;H&quot; = Home Phone</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;H2&quot; = Home Phone 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;M&quot; = Mobile Phone</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;F&quot; = Fax</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;P&quot; = Pager</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;A&quot; = Assistant Phone</td>
</tr>
<tr>
<td>AdditionalData</td>
<td>nvarchar</td>
<td>128</td>
<td>NULL</td>
<td>Currently not used.</td>
</tr>
</tbody>
</table>
IF NOT EXISTS (SELECT * FROM sysobjects WHERE id = object_id(N'[dbo].[Contacts]')
and OBJECTPROPERTY(id, N'IsUserTable') = 1)
cREATE TABLE Contacts ( 
    [ID] nvarchar(25) NOT NULL,
    Owner nvarchar(25) NULL,
    Access int NULL,
    [Name] nvarchar(64) NULL,
    LastName nvarchar(30) NULL,
    FirstName nvarchar(30) NULL,
    Company nvarchar(64) NULL,
    Title nvarchar(32) NULL,
    Department nvarchar(64) NULL,
    BusinessAddress nvarchar(128) NULL,
    BusinessCity nvarchar(30) NULL,
    BusinessState nvarchar(6) NULL,
    BusinessZip nvarchar(15) NULL,
    BusinessCountry nvarchar(30) NULL,
    BusinessEMail nvarchar(128) NULL,
    Assistant nvarchar(64) NULL,
    HomeAddress nvarchar(128) NULL
);
HomeCity nvarchar
(30) NULL ,
HomeState nvarchar
(6) NULL ,
HomeZip nvarchar
(15) NULL ,
HomeCountry nvarchar
(30) NULL ,
HomeEMail nvarchar
(128) NULL ,
BusinessPhone nvarchar
(80) NULL ,
BusinessPhone2 nvarchar (80)
NULL ,
HomePhone nvarchar
(80) NULL ,
HomePhone2 nvarchar
(80) NULL ,
Mobile nvarchar
(80) NULL ,
Fax nvarchar
(80) NULL ,
Pager nvarchar
(80) NULL ,
AssistantPhone nvarchar (80)
NULL ,
URL nvarchar
(255) NULL ,
PrimaryNumber nvarchar
(2) NULL ,
Notes nvarchar
(2000) NULL ,
Password nvarchar
(12) NULL ) on [PRIMARY]

IF (@@ERROR = 0) and EXISTS (SELECT * FROM sysobjects
   WHERE id = object_id(N'[dbo].[spinin_update_cksum]')
   and OBJECTPROPERTY(id, N'IsProcedure') = 1)
   EXEC spinin_update_cksum 'IC', 'Running'
GO
--
IF OBJECTPROPERTY (object_id(N'[dbo].[Contacts]'), 'TableHasPrimaryKey'
) = 0
   ALTER TABLE [dbo].[Contacts]
   ADD CONSTRAINT [PK_Contacts] PRIMARY
   KEY CLUSTERED ([ID])
IF (@@ERROR = 0) and EXISTS (SELECT * FROM sysobjects
   WHERE id = object_id(N'[dbo].[spinin_update_cksum]')
   and OBJECTPROPERTY(id, N'IsProcedure') = 1)

EXEC spinin_update_cksum 'IC', 'Running'
GO
--

/***********************************************
* Desc: Create the table SpeedDialList
* $Id: //depot/systest/eic/main/products/eic/src/sql/sqlserver/08table/SpeedDialList.TAB#5
* $Author: Jared.Alford $*
* $Date: 2003/05/07 $*
* $Change: 27477 $*
***********************************************/

IF NOT EXISTS (SELECT * FROM sysobjects WHERE id = object_id(N'[dbo].[SpeedDialList]')
and OBJECTPROPERTY(id, N'IsUserTable') = 1)
create table SpeedDialList (  
    [ID]    nvarchar(25) NOT NULL,
    Owner   nvarchar(25) NULL,
    Access  int NULL,
    ListName nvarchar(80) NULL
) on [PRIMARY]

IF (@@ERROR = 0) and EXISTS (SELECT * FROM sysobjects
WHERE id = object_id(N'[dbo].[spinin_update_cksum]')
and OBJECTPROPERTY(id, N'IsProcedure') = 1)
EXEC spinin_update_cksum 'IC', 'Running'
GO
--

IF OBJECTPROPERTY (object_id(N'[dbo].[SpeedDialList]'), 'TableHasPrimaryKey') = 0
ALTER TABLE [dbo].[SpeedDialList]
ADD CONSTRAINT [PK_SpeedDialList] PRIMARY KEY CLUSTERED ([ID])

IF (@@ERROR = 0) and EXISTS (SELECT * FROM sysobjects
WHERE id = object_id(N'[dbo].[spinin_update_cksum]')
and OBJECTPROPERTY(id, N'IsProcedure') = 1)
EXEC spinin_update_cksum 'IC', 'Running'
GO
--

/***********************************************
* Desc: Create the table SpeedDial
* $Id: //depot/systest/eic/main/products/eic/src/sql/sqlserver/08table/SpeedDial.TAB#5
* $Author: Jared.Alford $*
* $Date: 2003/05/07 $*
* $Change: 27477 $*
***********************************************/

IF NOT EXISTS (SELECT * FROM sysobjects WHERE id = object_id(N'[dbo].[SpeedDial]')
and OBJECTPROPERTY(id, N'IsUserTable') = 1)
create table SpeedDial (  
    [ID]    nvarchar(25) NOT NULL,
    ListID  nvarchar(9)
) on [PRIMARY]

IF (@@ERROR = 0) and EXISTS (SELECT * FROM sysobjects
WHERE id = object_id(N'[dbo].[spinin_update_cksum]')
and OBJECTPROPERTY(id, N'IsProcedure') = 1)
EXEC spinin_update_cksum 'IC', 'Running'
GO
--

/*********************************************************/
}
(25) NOT NULL ,
    ContactSource    nvarchar
(64) NOT NULL ,
    ContactID        nvarchar
(255) NOT NULL ,
    SpeedDialNumber  nvarchar (2)
    NULL ,
    AdditionalData   nvarchar
(128) NULL ) on [PRIMARY]

IF (@@ERROR = 0) and EXISTS (SELECT * FROM sysobjects 
    WHERE id = object_id(N'[dbo].[spinin_update_cksum]')
    and OBJECTPROPERTY(id, N'IsProcedure') = 1)
    EXEC spinin_update_cksum 'IC', 'Running'
GO

IF OBJECTPROPERTY (object_id(N'[dbo].[SpeedDial]') , 'TableHasPrimaryKey') = 0
ALTER TABLE [dbo].[SpeedDial]
    ADD CONSTRAINT [PK_SpeedDial] PRIMARY KEY CLUSTERED ([ID])

IF (@@ERROR = 0) and EXISTS (SELECT * FROM sysobjects 
    WHERE id = object_id(N'[dbo].[spinin_update_cksum]')
    and OBJECTPROPERTY(id, N'IsProcedure') = 1)
    EXEC spinin_update_cksum 'IC', 'Running'
GO

--- remove any system named foreign key on ListID -----
DECLARE @FKname VARCHAR(255),
    @SQLstring VARCHAR(255)
SELECT @FKname = so.name
    FROM sysobjects so
    INNER JOIN syscolumns sc ON sc.id = so.parent_obj
    INNER JOIN sysforeignkeys sfk ON so.id = sfk.constid
    AND sc.colid = sfk.fkey
    INNER JOIN syscolumns scref ON scref.id = sfk.rkeyid
    WHERE so.xtype = 'F'
    AND so.parent_obj = object_id('SpeedDial')
    AND sc.name = 'ListID'
    AND sfk.rkeyid = object_id('SpeedDialList')
    AND scref.name = 'ID'

SELECT @SQLstring = 'ALTER TABLE [dbo].[SpeedDial] DROP CONSTRAINT ' +
    ISNULL(@FKname,'')
IF @FKname IS NOT NULL
    EXEC(@SQLstring)
IF (@@ERROR = 0) and EXISTS (SELECT * FROM sysobjects 
    WHERE id = object_id(N'[dbo].[spinin_update_cksum]')
    and OBJECTPROPERTY(id, N'IsProcedure') = 1)
    EXEC spinin_update_cksum 'IC', 'Running'
GO

--- use explicit foreign key names from now on!! -----
IF EXISTS (SELECT * FROM sysobjects WHERE id = object_id(N'[dbo].[FK_SpeedDial_ListID]')
    and OBJECTPROPERTY(id, N'IsForeignKey') = 1)
    ALTER TABLE [dbo].[SpeedDial]
    DROP CONSTRAINT [FK_SpeedDial_ListID]
    IF (@@ERROR = 0) and EXISTS (SELECT * FROM sysobjects
WHERE id = object_id(N'['dbo'].[spinin_update_cksum']')
and OBJECTPROPERTY(id, N'IsProcedure') = 1)
   EXEC spinin_update_cksum 'IC', 'Running'
GO
--
IF NOT EXISTS (SELECT * FROM sysobjects WHERE id = object_id(N'['dbo'].[FK_SpeedDial_ListID']')
and OBJECTPROPERTY(id, N'IsForeignKey') = 1)
   ALTER TABLE ['dbo'].[SpeedDial] WITH
      NOCHECK
      ADD CONSTRAINT ['FK_SpeedDial_ListID']
      FOREIGN KEY ([ListID])
      REFERENCES ['dbo'].[SpeedDialList] ([ID])
IF (@@ERROR = 0) and EXISTS (SELECT * FROM sysobjects
   WHERE id = object_id(N'['dbo'].[spinin_update_cksum']')
and OBJECTPROPERTY(id, N'IsProcedure') = 1)
   EXEC spinin_update_cksum 'IC', 'Running'
GO
define xTblTsp = &1
define xIdxTsp = &2
define xProduct = 'IC'
define xStatus = 'RUNNING'
define xNulls = NULL
set verify off
BEGIN
-- Contacts
crtable('Contacts',
  '(ID varchar2 (25) NOT NULL,
   Owner varchar2 (25) NULL,
   AccessFlags number (10) NULL,
   Name varchar2 (64) NULL,
   LastName varchar2 (30) NULL,
   FirstName varchar2 (30) NULL,
   Company varchar2 (64) NULL,
   Title varchar2 (32) NULL,
   Department varchar2 (64) NULL,
   BusinessAddress varchar2 (128) NULL,
   BusinessCity varchar2 (30) NULL,
   BusinessState varchar2 (6) NULL,
   BusinessZip varchar2 (15) NULL,
   BusinessEMail varchar2 (128) NULL,
   Assistant varchar2 (64) NULL,
   HomeAddress varchar2 (128) NULL,
   HomeCity varchar2 (30) NULL,
   HomeState varchar2 (6) NULL,
   HomeZip varchar2 (15) NULL,
   HomeCountry varchar2 (30) NULL,
   HomeEMail varchar2 (128) NULL,
   BusinessPhone varchar2 (80) NULL,
   BusinessPhone2 varchar2 (80) NULL,
   HomePhone varchar2 (80) NULL,
   HomePhone2 varchar2 (80) NULL,
   Mobile varchar2 (80) NULL,
   Fax varchar2 (80) NULL,
   Pager varchar2 (80) NULL,
   AssistantPhone varchar2 (80) NULL,
   URL varchar2 (255) NULL,
   PrimaryNumber varchar2 (2) NULL,
   Notes varchar2 (2000) NULL)
  tablespace &xTblTsp',
  '&xProduct',
  '&xStatus');
crPK ('CONTACTS', 'PK_CONTACTS', 'ID', '&xProduct', '&xStatus');
-- SpeedDialList
crtable('SpeedDialList',
  '(ID varchar2 (25) NOT NULL,
   Owner varchar2 (25) NULL,
   AccessFlags number (10) NULL,
   ListName varchar2 (80) NULL)
  tablespace &xTblTsp',
  '&xProduct',
  '&xStatus');
crPK ('SPEEDDIALLIST', 'PK_SPEEDDIALLIST', 'ID', '&xProduct', '&xStatus');
-- SpeedDial
cretable('SpeedDial',
  '('
  ID varchar2 (25) NOT NULL ,
  ListID varchar2 (25) NOT NULL REFERENCES SpeedDialList(ID),
  ContactSource varchar2 (64) NOT NULL ,
  ContactID varchar2 (255) NOT NULL ,
  SpeedDialNumber varchar2 (2) NULL ,
  AdditionalData varchar2 (128) NULL
) tablescape &xTblTsp',
  '&xProduct',
  '&xStatus');
crePK ('SPEEDDIAL', 'PK_SPEEDDIAL', 'ID', '&xProduct', '&xStatus');
The following table lists the changes to this document since Customer Interaction Center version 4.0 product availability.

<table>
<thead>
<tr>
<th>Date</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>01-August-2014</td>
<td>Updated documentation to reflect changes required in the transition from version 4.0 SU# to CIC 2015 R1, such as updates to product version numbers, system requirements, installation procedures, references to Product Information site URLs, and copyright and trademark information.</td>
</tr>
<tr>
<td>01-July-2015</td>
<td>Updated cover page with new logo.</td>
</tr>
<tr>
<td>01-April-2017</td>
<td>Updated documentation to reflect the removal of Interaction Client Web Edition.</td>
</tr>
<tr>
<td>23-March-2018</td>
<td>Rebranded to Genesys.</td>
</tr>
<tr>
<td>23-May-2019</td>
<td>Reorganized the content only, which included combining some topics and deleting others. For more details, see <a href="#">CICDOC-192</a>.</td>
</tr>
</tbody>
</table>