

kConnect
for
IBM i
Kisco Connect

Version 1.0



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Section 1 – Kisco Connect Overview

kConnect SMS Messaging using Twilio®

With kConnect messaging you can send SMS messages to cell phone numbers directly from IBM i without using SMTP commands or servers. There is no need to do e-mail-to-SMS conversions that do not work reliably.

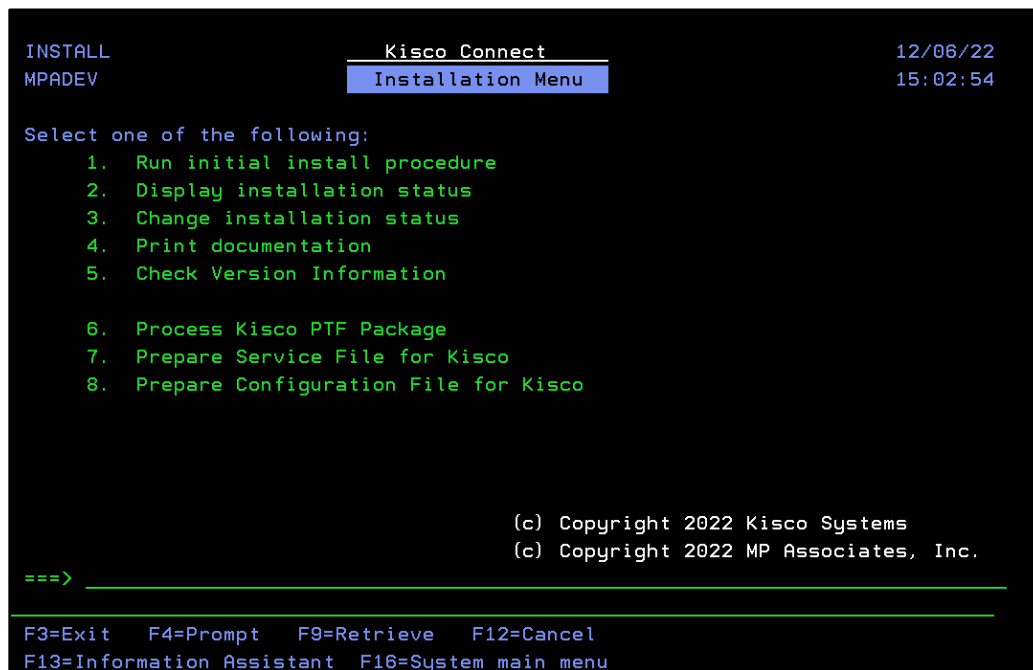
Using kConnect, you can also imbed the kSNDSMS command into your existing applications to provide timely alert messages or notifications to your system users or administrators.

kConnect kSNDSMS uses the popular SMS service known as Twilio® to provide the system-to-SMS interface.

Section 2 - Setup Kisco Connect...It's this Easy!

1. Install the kConnect product following the instructions on the Kisco Systems website at www.Kisco.com

Guidance on the use of the options on the Kisco Connect Installation Menu will be provided by Kisco support staff as needed.



The screenshot shows a terminal window titled "Kisco Connect" with a subtitle "Installation Menu". The window has a black background with green text. At the top left, it says "INSTALL" and "MPADEV". At the top right, it shows the date "12/06/22" and the time "15:02:54". The main content is a list of options to select from, numbered 1 through 8. At the bottom, there are copyright notices for Kisco Systems and MP Associates, Inc. and a list of function key shortcuts: F3=Exit, F4=Prompt, F9=Retrieve, F12=Cancel, F13=Information Assistant, and F16=System main menu. A green cursor is visible at the bottom left, pointing to the first option.

```
INSTALL                                Kisco Connect                                12/06/22
MPADEV                                Installation Menu                                15:02:54

Select one of the following:
  1. Run initial install procedure
  2. Display installation status
  3. Change installation status
  4. Print documentation
  5. Check Version Information

  6. Process Kisco PTF Package
  7. Prepare Service File for Kisco
  8. Prepare Configuration File for Kisco

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===>

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel
F13=Information Assistant  F16=System main menu
```

2. Go to www.twilio.com and create a new user account.

Follow the instructions at the link below on how to create your first Twilio® account. You can start with a free TEST account and upgrade the account to a full account later.

You will need to obtain a Twilio® Account SID and the Authorization Key. You will probably want to get a phone number to use from them as well.

<https://www.twilio.com/docs/usage/tutorials/how-to-use-your-free-trial-account>

3. Configure kConnect

After you have your new Twilio® Account SID, Authorization Key and phone number, you are ready to configure kConnect.

- On a 5250 command line, enter the following command:

GO KCONNECT/KC1

```

KC1                               Kisco Connect    v1.0           12/05/22
MPA1                               Main Menu         13:37:23

Select one of the following:

1. Send SMS Message
2. Display SMS Log File
3. Purge SMS Log File
4.
5. Change kConnect Environment Settings
6. Work with SMS Service Providers
7.
8.

Fast Path
kSndSMS
DspkConLog
PrgkConLog
ChgkConEnv
WrkkConSrv

80. Install Menu
90. Signoff

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```

- Select **Option 6 - Work with SMS Service Providers**

If this is a new installation, you will be prompted to *Add a New Account*.

```

KCSMS02                          Kisco Connect    12/07/22
MPADEV                            Maintain SMS Service Accounts 11:04:46

Provider: TWILIO

Options:
2=Change 3=Copy 4=Delete

Opt Account ID
_ *DEFAULT Notes: Production Twilio Account

.....Add New SMS Account.....
:
: Account ID: _____
: SID: _____
: AuthKey: _____
: Phone#: _____
:
: F12=Return
:
:

```

- Enter the SID, AuthKey and phone number you have chosen.

We recommend that you create an account ID of **DEFAULT* at this time since that is the default value in the KSNDSMS command.

- Exit the program. You have now configured kConnect

Section 3 - Sending an SMS Message

There are two ways to send an SMS Message using kConnect:

- From the Kisco Connect Main Menu, select **Option 1 – Send SMS Message**
- Use the command **kSndSMS** in library KCONNECT

Both options will show you the following command prompt:

```
kConnect Send SMS Message (KSND SMS)

Type choices, press Enter.

Send to Phone#(s) . . . . . _____
+ for more values _____
Message to Send . . . . . _____
_____
_____
_____
_____
Account ID . . . . . *DEFAULT *DEFAULT
Account Name . . . . . TWILIO TWILIO
```

Enter a target phone number and your message text.

If you used the **DEFAULT* account ID, just press **ENTER**.

If you used a different Account ID you will need to enter that ID instead of **DEFAULT*.

There may be a delay the first time you use the command. When the process completes, you should receive the following:

SMS Message Sent

Section 4 - Configuring the kConnect Environment

kConnect can log details about every message sent.

To manage logging, on the Kisco Connect Main Menu (KC1) select **Option 5 – Change kConnect Environment Settings** or use the **CHGKCONENV** command.

By default kConnect logging is active; you can turn logging off or on as needed.

```
kConnect Environment Settings (CHGKCONENV)
Type choices, press Enter.
Log SMS Messages? . . . . . *YES      *YES, *NO
```

Note: If you choose to turn normal logging off, any FAILED messages will still be logged.

Working with the SMS Service Providers

You eventually will change from a test account to a valid Twilio® production account.

If your TEST account SID is currently assigned to the kConnect **DEFAULT* Account ID, you can re-assign that test SID to a different Account ID.

You may want to assign your new valid Twilio® account to Account ID **DEFAULT* and use that Account ID for PRODUCTION.

To view the list of SMS accounts select **Option 6 – Work with SMS Service Providers** from the Kisco Connect Main Menu (KC1)

```
KCSMS02      Kisco Connect      12/07/22
MPADEV      Maintain SMS Service Accounts  11:17:55

Provider: TWILIO

Options:
2=Change  3=Copy  4=Delete

Opt Account ID
= *DEFAULT  Notes: TEST Twilio Account
  SID:      ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
  AUTHKEY:   36xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
  PHONE#:    1555555555
```


Use **Option 3** on this screen to copy the existing **DEFAULT* account to a new named account. This example copies **DEFAULT* to a new TEST account.

```
Copy Account ID
Copy FROM Account ID: *DEFAULT
Copy TO Account ID: TEST
New Note: Test SMS Account.
F12=Return
```

After the account is copied to a new TEST account, use **Option 2** on the original **DEFAULT* and change the SID, AuthKey and Phone# to your new PRODUCTION SID account.

```
KCSMS02      Kisco Connect      12/07/22
MPADEV      Maintain SMS Service Accounts  11:27:11

Provider: TWILIO

Options:
2=Change  3=Copy  4=Delete

Opt Account ID
2 *DEFAULT  Notes: TEST Twilio Account
SID: ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
AUTHKEY: 36xxxxxxxxxxxxxxxxxxxxxxxxxxxx
PHONE#: 1555555555
MPATEST    Notes: Test

.....Change Account.....
Account ID: *DEFAULT  PRODUCTION Twilio Account
SID: ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
AuthKey: 36xxxxxxxxxxxxxxxxxxxxxxxxxxxx
Phone#: 1555555555
F12=Return
```

You can now use your new PRODUCTION SID account ID as the **DEFAULT* account in kConnect.

You can still use your test account by entering the account name of TEST in the kSndSMS command AccountID field.

```
kConnect Send SMS Message (KSND SMS)

Type choices, press Enter.

Send to Phone#(s) . . . . . 5551212
                        + for more values
Message to Send . . . . . test

Account ID . . . . . TEST *DEFAULT
Account Name . . . . . TWILIO TWILIO
```

Section 5 - SMS Log File

Viewing the SMS Log file

To view the log entries, from the Kisco Connect Main Menu select **Option 2 – Display SMS Log File (DSPKCONLOG)**

```
KCSMS03      Kisco Connect      11/21/22  16:54:31
MPADEV      kConnect SMS Transmission Log
Options:
1=SMS Info   5=SMS Message
Displaying the Last Logged Messages.
Opt  Status      Date/Time      To Phone      Message
-  queued      outbound 2022/11/22 16:48:31 646200000033 Test Message
-  Failed      outbound 2022/11/22 11:54:03 646200000033 test bad
-  queued      outbound 2022/11/22 11:52:57 646200000033 Sent from your Twilio
```

Use **Options 1 and 5** to view specific details about the SMS message or any error messages.

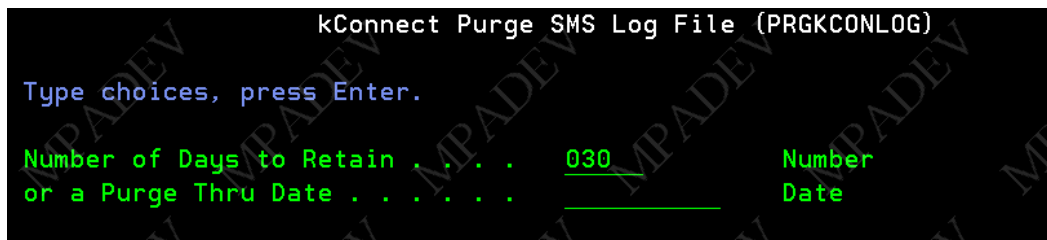
```
KCSMS03      Kisco Connect      11/21/22  16:55:31
MPADEV      kConnect SMS Transmission Log
SMS Details      Sent by User: SAFENET
Status: queued      outbound-api
Date: 2022/11/22 16:48:31 From Job: 366567/SAFENET/QPADEV0006
To Phone: 646200000033
From Phone: +120399340172
Msg: Test Message
From Acct ID: ACf6e8505de937e3a1e5b1e3f35
#Segs: 1      #Media: 0      Version: 2010-04-01
URI: /2010-04-01/Accounts/ACf6e8505de937e3a1e5b1e3f35/Messages/SM920087d
9a5eea9dd58b5a6fbd096ee40.json
TransID: SM920087d9a5eea9dd58b5a6fbd096ee40
Err Codes:
```

Purging the SMS Log file

If you leave logging active, you may want to purge the log file as it may grow quite large over time.

From the Kisco Connect Main Menu select **Option 3 – Purge SMS Log File (PRGKCONLOG)**.

You can enter a purge thru date or the number of days to retain.



```
kConnect Purge SMS Log File (PRGKCONLOG)

Type choices, press Enter.

Number of Days to Retain . . . . . 030      Number
or a Purge Thru Date . . . . .           Date
```

Section 6 - Program examples using kSndSMS in IBM i applications

In a CL program:

```
/*=====*/
/* Example of CL program that executes the KSND SMS command */
/*=====*/
Pgm
  Dcl Var(&ToPhone#) Type(*Char) Len(16)
  Dcl Var(&ToMsg) Type(*Char) Len(1600)

  /* enter a valid &ToPhone# below */
  ChgVar &ToPhone# Value('9991112222')
  ChgVar &ToMsg Value('Test use example in CL program ')

  /* Send the message */
  KConnect/KSndSms ToPhone(&ToPhone#) ToMsg(&ToMsg)

EndPgm
```

In an RPG program using QCMD EXC:

```
// this is a code subset that shows example of using RPG to send an SMS message
// define QCMD EXC procedure
dcl-pr RunCmd extpgm('QCMD EXC') ;
  @CmdStrng Char(200) ;
  @Cmdlen Packed(15:5);
end-pr;

// pgm Variables
dcl-s @Cmd Char(200) inz;
dcl-s @Len Packed(15:5) inz;

// these variables below are hardcoded only for example.
// You would normally not hard code either of these two variables.
dcl-s @ToPhone# Char(16) Inz('9995551111'); // <-- enter a valid #
dcl-s @ToMsg Char(1600) Inz('Test Example Message');

// Build Command string to execute
@Cmd = 'KCONNECT/kSndSMS ToPhone(' + %Trim(@ToPhone#) + ')' +
       ' ToMsg(' + @Len + %Trim(@ToMsg) + ')';
@Len = %len(%Trim(@Cmd));

// send the SMS Message
RunCmd(@Cmd :@Len);
```