

Source: T3

Title: Change Request to GSM 03.19 "SIM API for Java Card™"

Agenda item: 6.3.3

Document for: Approval

This document contains a change request to GSM 03.19 v7.2.0 agreed by T3.

T3 Doc	Spec	CR	Rv	Rel	Subject
T3-000415	03.19	A003		R98	Definition of the value of the getShareableInterfaceObject() method byte parameter for the ToolkitInterface.

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

03.19 CR A003

Current Version: **7.2.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG-T #9**
list expected approval meeting # here ↑

for approval ☒
for information ☐

strategic ☐
non-strategic ☐ (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG

The latest version of this form is available from: <http://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects:
(at least one should be marked with an X)

(U)SIM ☒ ME ☐ UTRAN / Radio ☐ Core Network ☐

Source:

T3

Date:

17/08/2000

Subject:

Definition of the value of the *getShareableInterfaceObject()* method byte parameter for the ToolkitInterface.

Work item:

SIM API

Category:

(only one category shall be marked with an X)

F Correction ☒
A Corresponds to a correction in an earlier release ☐
B Addition of feature ☐
C Functional modification of feature ☐
D Editorial modification ☐

Release:

Phase 2 ☐
Release 96 ☐
Release 97 ☐
Release 98 ☒
Release 99 ☐
Release 00 ☐

Reason for change:

Since a toolkit applet may implement several *Shareable* interfaces, a value must be defined to identify the ToolkitInterface defined by the 03.19 SIM API.

Clauses affected:

7.2, ANNEX C

Other specs affected:

Other 3G core specifications ☐ → List of CRs:
Other GSM core specifications ☐ → List of CRs:
MS test specifications ☐ → List of CRs:
BSS test specifications ☐ → List of CRs:
O&M specifications ☐ → List of CRs:

Other comments:



help.doc

<----- double-click here for help and instructions on how to create a CR.

7.2 Object Sharing

The sharing mechanism defined in Java Card 2.1 API Specification [7] and Java Card 2.1 Runtime Environment Specification [8] shall be used by the applet to share data.

The byte parameter of the *getShareableInterfaceObject()* method shall be set to zero (i.e. '00') when the *ToolkitInterface* reference is required.

Annex C (informative): Toolkit applet example

```

/**
 * Example of Toolkit Applet
 */

package ToolkitAppletExample

import sim.toolkit.*;
import sim.access.*;
import javacard.framework.*;

public class MyToolkitApplet extends javacard.framework.Applet implements ToolkitInterface,
ToolkitConstants{

    public static final byte MY_INSTRUCTION      = (byte)0x46;
    public static final byte SERVER_OPERATION    = (byte)0x0F;
    public static final byte CMD_QUALIFIER      = (byte)0x80;

    private byte[] menuEntry =    {(byte)'S',(byte)'e',(byte)'r',(byte)'v',(byte)'i',(byte)'c',
                                   (byte)'e',(byte)'1'};
    private byte[] menuTitle =    {(byte)'M',(byte)'y',(byte)'M',(byte)'e',(byte)'n',(byte)'u'};
    private byte[] item1 =        {(byte)'I',(byte)'T',(byte)'E',(byte)'M',(byte)'1'};
    private byte[] item2 =        {(byte)'I',(byte)'T',(byte)'E',(byte)'M',(byte)'2'};
    private byte[] item3 =        {(byte)'I',(byte)'T',(byte)'E',(byte)'M',(byte)'3'};
    private byte[] item4 =        {(byte)'I',(byte)'T',(byte)'E',(byte)'M',(byte)'4'};
    private Object[] ItemList =    { item1, item2, item3, item4 };
    private byte[] textDText =     {(byte)'H',(byte)'e',(byte)'l',(byte)'l',(byte)'o',(byte)' ',
                                   (byte)'w',(byte)'o',(byte)'r',(byte)'l',(byte)'d',(byte)'2'};
    private byte[] textGInput =    {(byte)'Y',(byte)'o',(byte)'u',(byte)'r',(byte)' ',(byte)'n',
                                   (byte)'a',(byte)'m',(byte)'e',(byte)'?'};

    private byte[] baGSMAID =      {0xA0,0x00,0x00,0x00,0x09,0x00,0x01};
    private ToolkitRegistry reg;
    private SIMView gsmFile;
    private byte buffer[] = new byte[10];
    private byte itemId;
    private byte result;

    /**
     * Constructor of the applet
     */
    public MyToolkitApplet() {

        // get the GSM application reference
        gsmFile = SIMSystem.getTheSIMView();

        // register to the SIM Toolkit Framework
        reg = ToolkitRegistry.getEntry();

        // Define the applet Menu Entry and register to the EVENT_MENU_SELECTION
        itemId = reg.initMenuEntry(menuEntry, (short)0x0000, (short)menuEntry.length,
                                   PRO_CMD_DISPLAY_TEXT, false, (byte) 0x00, (short) 0x0000);
        // register to the EVENT_UNFORMATTED_SMS_PP_ENV
        reg.setEvent(EVENT_UNFORMATTED_SMS_PP_ENV);
    }

    /**
     * Method called by the JCRE at the installation of the applet
     */
    public static void install(byte bArray[], short bOffset, byte bLength) {
        MyToolkitApplet MyApplet = new MyToolkitApplet ();
        MyApplet.register();
    }

    /**
     * Method called by the GSM Framework
     */
    public Shareable getShareableInterfaceObject ( AID clientAID, byte parameter)
    {
        if (parameter == (byte) 0x00)
        {
            if ( AID.partialEquals(baGSMAID, (byte) 0x00, baGSMAID.length) == true )
                return ((Shareable) this);
            else
                return(null);
        }
    }

```