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Popular Methods

- [getBasicChannel\(.\)](#)
- [disconnect\(.\)](#)

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Related Classes

- [java.io.BufferedReader](#)
- [java.io.FileReader](#)
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- [java.util.ListIterator](#)
- [java.util.EnumMap](#)
- [java.security.Security](#)
- [java.security.AccessController](#)
- [java.security.PrivilegedAction](#)

- [org.apache.commons.codec.binary.Hex](#)
- [java.util.concurrent.ConcurrentSkipListMap](#)
- [javax.smartcardio.CardException](#)
- [javax.smartcardio.CardTerminal](#)
- [javax.smartcardio.CommandAPDU](#)
- [javax.smartcardio.TerminalFactory](#)
- [javax.smartcardio.ResponseAPDU](#)
- [javax.smartcardio.CardChannel](#)
- [javax.smartcardio.CardTerminals](#)
- [javax.smartcardio.ATR](#)
- [javax.smartcardio.CardNotPresentException](#)
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- [com.github.devnied.emvnfccard.exception.CommunicationException](#)



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Java Code Examples for javax.smartcardio.Card

The following are top voted examples for showing how to use [javax.smartcardio.Card](#). These examples are extracted from open source projects. You can vote up the examples you like and your votes will be used in our system to generate more good examples.

+ Save this class

Example 1

Project: *eid-applet* File: *PcscTest.java* [View source code](#)

7 votes



```
@Test
public void testReadPhoto() throws Exception {
    TerminalFactory terminalFactory = TerminalFactory.getDefault();
    CardTerminals cardTerminals = terminalFactory.terminals();
    CardTerminal cardTerminal = cardTerminals.list().get(0);
    Card card = cardTerminal.connect("T=0");
    CardChannel cardChannel = card.getBasicChannel();
    // select file
    cardChannel.transmit(
        new CommandAPDU(0x00, 0xA4, 0x08, 0x0C, new byte[] { 0x3F, 0x00, (byte) 0xDF, 0x01, 0x40, 0x35 }));
    ByteArrayOutputStream baos = new ByteArrayOutputStream();
    int offset = 0;
    ResponseAPDU responseApu;
    do {
        // read binary
        responseApu = cardChannel.transmit(new CommandAPDU(0x00, 0xB0, offset >> 8, offset & 0xFF, 0xff));
        baos.write(responseApu.getData());
        offset += responseApu.getData().length;
    } while (responseApu.getData().length == 0xff);
    BufferedImage photo = ImageIO.read(new ByteArrayInputStream(baos.toByteArray()));
    JOptionPane.showMessageDialog(null, new ImageIcon(photo));
}
```

Example 2

Project: *EMV-NFC-Paycard-Enrollment* File: *Main.java* [View source code](#)

7 votes



```
public static void main(final String[] args) throws CardException, CommunicationException {

    TerminalFactory factory = TerminalFactory.getDefault();
    List<CardTerminal> terminals = factory.terminals().list();
    LOGGER.info("Terminals: " + terminals);

    if (terminals != null && !terminals.isEmpty()) {
        // Use the first terminal
        CardTerminal terminal = terminals.get(0);

        // Connect with the card
        Card card = terminal.connect("**");
    }
}
```

```

        LOGGER.info("card: " + card);
        CardChannel channel = card.getBasicChannel();

        PcscProvider provider = new PcscProvider(channel);
        EmvParser parser = new EmvParser(provider, false);
        parser.readEmvCard();

        // Disconnect the card
        card.disconnect(false);
    } else {
        LOGGER.error("No pcsc terminal found");
    }
}

```

Example 3

Project: dss File: MOCCASignatureTokenConnection.java [View source code](#)

6 votes



```

private List<SignatureCard> getSignatureCards() {
    if (_signatureCards == null) {
        _signatureCards = new ArrayList<SignatureCard>();
        SmartCardIO io = new SmartCardIO();
        SignatureCardFactory factory = SignatureCardFactory.getInstance();

        for (Entry<CardTerminal, Card> entry : io.getCards().entrySet()) {
            try {
                _signatureCards.add(factory.createSignatureCard(entry.getValue(), entry.getKey()));
            } catch (CardNotSupportedException e) {
                // just log the error - MOCCA tries to connect to all cards and we may have an MSCAPI or PKCS:
                // inserted.
                LOG.info(e.getMessage());
            }
        }
    }
    return _signatureCards;
}

```

Example 4

Project: secure-element-gpdroid-nfc File: GPConnection.java [View source code](#)

6 votes



```

/**
 * Method that acquires a CardChannel from the given terminal and performs
 * the given GPCommand on it
 *
 * @param keyset
 * @param channelSet
 * @param _cmd
 * @return
 */
public String performCommand(CardTerminal _term, GPKeyset keyset, GPChannelSet channelSet,
    GPCommand _cmd) {
    try {
        Card c = null;

        if (_term instanceof OpenMobileAPITerminal) {
            ((OpenMobileAPITerminal) _term).setReader(_cmd.getSeekReader());
        }

        c = _term.connect("");
        System.out.println("Found card in terminal: " + _term.getName());
        if (c.getATR() != null) {
            System.out.println("ATR: "
                + GPUtil.byteArrayToString(c.getATR().getBytes()));
        }
        CardChannel channel = c.openLogicalChannel();
        return performCommand(channel, keyset, channelSet, _cmd);
    } catch (Exception e) {
        e.printStackTrace();
    }
    return null;
}

```

Example 5

Project: commons-eid File: CCID.java [View source code](#)

6 votes



```
private void getFeaturesUsingPPDU(final Card card) throws CardException {
    ResponseAPDU responseAPDU = card.getBasicChannel().transmit(
        new CommandAPDU((byte) 0xff, (byte) 0xc2, 0x01, 0x00,
            new byte[] {}, 32));
    this.logger.debug("PPDU response: "
        + Integer.toHexString(responseAPDU.getSW()));
    if (responseAPDU.getSW() == 0x9000) {
        byte[] featureBytes = responseAPDU.getData();
        this.logger
            .debug("CCID FEATURES found using Pseudo-APDU Fallback Strategy");
        for (FEATURE feature : FEATURE.values()) {
            Integer featureCode = findFeaturePPDU(feature.getTag(),
                featureBytes);
            if (featureCode != null) {
                this.features.put(feature, featureCode);
                this.logger.debug("FEATURE " + feature.name() + " = "
                    + Integer.toHexString(featureCode));
            }
        }
        this.usesPPDU = true;
    } else {
        this.logger.error("CCID Features via PPDU Not Supported");
    }
}
}
```

Example 6

Project: *jdk8u-dev-jdk* File: *TestDirect.java* [View source code](#)

6 votes



```
public static void main(String[] args) throws Exception {
    TerminalFactory terminalFactory = TerminalFactory.getDefault();
    List<CardTerminal> cardTerminals = terminalFactory.terminals().list();
    System.out.println("Terminals: " + cardTerminals);
    if (cardTerminals.isEmpty()) {
        throw new Exception("No card terminals available");
    }
    CardTerminal cardTerminal = cardTerminals.get(0);
    Card card = cardTerminal.connect("DIRECT");
    card.disconnect(true);

    System.out.println("OK.");
}
}
```

Example 7

Project: *apdu4j* File: *JSONCardTerminal.java* [View source code](#)

6 votes



```
@Override
public Card connect(String protocol) throws CardException {
    try {
        HashMap<String, Object> m = new HashMap<>();
        m.put("cmd", "CONNECT");
        m.put("protocol", protocol);
        client.send(m);

        // Read back the response
        Map<String, Object> r = client.recv();
        if (r.containsKey("CONNECT") && ((String)r.get("CONNECT")).equals("OK")) {

            if (r.containsKey("atr") && r.containsKey("protocol") && r.containsKey("reader")) {
                terminalName = (String) r.get("reader");
                atr = new ATR(HexUtils.stringToBin((String) r.get("atr")));
                this.protocol = ((String) r.get("protocol"));
                return new JSONCard(this);
            }
        }
        throw new CardException("Could not connect to client");
    } catch (IOException e) {
        throw new CardException("Could not connect to client", e);
    }
}
}
```

Example 8

Project: *GlobalPlatformPro* File: *SEAccessControlUtility.java* [View source code](#)

6 votes



```
/**
 * Send Access Control rule GET DATA.
 *
 * @param card
 * @param P1
 * @return
 * @throws CardException
 * @throws GPEException
 */
private static ResponseAPDU sendAcrGetData(final Card card, final byte P1) throws CardException, GPEException {
    CommandAPDU list = new CommandAPDU(GlobalPlatform.CLA_GP, GlobalPlatform.INS_GET_DATA, 0xFF, P1, 256);

    ResponseAPDU response = card.getBasicChannel().transmit(list);

    try {
        GPEException.check(response, "ACR GET DATA failed");
    } catch (GPEException e) {
        if (SEAccessControl.ACR_GET_DATA_ERROR.containsKey(e.sw)) {

```

```

        System.out.println("[SW] " + SEAccessControl.ACR_GET_DATA_ERROR.get(e.sw));
    }
    throw e;
}
return response;
}

```

Example 9

Project: *GlobalPlatformPro* File: *SEAccessControlUtility.java* [View source code](#)

6 votes



```

/**
 * List access rules.
 *
 * @param card
 * @throws CardException
 * @throws GPEException
 */
public static void acrList(final GlobalPlatform gp, final Card card) throws CardException, GPEException {
    try {
        gp.select(SEAccessControl.ACR_AID);
        ResponseAPDU response = sendAcrGetData(card, SEAccessControl.ACR_GET_DATA_ALL);
        SEAccessControl.BerTlvData temp = SEAccessControl.AcrListResponse.getAcrListData(null, response.getData());

        while (temp.getCurrentIndex() < temp.getLength()) {
            response = sendAcrGetData(card, SEAccessControl.ACR_GET_DATA_NEXT);
            temp = SEAccessControl.AcrListResponse.getAcrListData(temp, response.getData());
        }

        SEAccessControl.AcrListResponse resp = SEAccessControl.AcrListResponse.fromBytes(temp.getLength(), temp.getData());
        SEAccessControl.printList(resp.acrList);
    } catch (GPEException e) {
        throw new GPEException("Could not read " + SEAccessControl.ACR_AID);
    }
}

```

Example 10

Project: *irma_future_id* File: *SCTerminal.java* [View source code](#)

6 votes



```

void updateTerminal() {
    if (! isCardPresent()) {
        scCard = null;
    } else {
        try {
            if (scCard != null) {
                // check if it is the same card, else remove
                Card newCard = terminal.connect("");
                if (! scCard.equalCardObj(newCard)) {
                    scCard = null;
                }
            }
        } catch (CardException ex) {
            // error means delete it anyways
            scCard = null;
        }
    }
}

```

Example 11

Project: *irma_future_id* File: *NFCCardTerminal.java* [View source code](#)

6 votes



```

@Override
public synchronized Card connect(String arg0) throws CardException {
    if (nfcCard == null || this.nfcCard.isodep == null) {
        logger.warn("No tag present.");
        throw new CardNotPresentException("No tag present");
    }
    try {
        if (! nfcCard.isodep.isConnected()) {
            nfcCard.isodep.setTimeout(3000);
            nfcCard.isodep.connect();
        }
    } catch (IOException e) {
        nfcCard = null;
        throw new CardException("No connection could be established", e);
    }
    return nfcCard;
}

```

Example 12

Project: *ts-cards* File: *SmartcardIoTransmitter.java* [View source code](#)

5 votes



```

public SmartcardIoTransmitter(Card card) {
    this.card = card;
}

```

Example 13

Project: *ts-cards* File: *SmartcardIoTransmitter.java* [View source code](#)

5 votes



```

public static SmartcardIoTransmitter create() throws CardException {
    TerminalFactory tf = TerminalFactory.getDefault();

    CardTerminal cardTerminal = null;

    if (tf.terminals().list().size() == 1) {
        cardTerminal = tf.terminals().list().get(0);
    } else {
        for (CardTerminal terminal : tf.terminals().list()) {
            logger.info("Checking for card: {}", terminal.getName());
            if (terminal.isCardPresent()) {
                cardTerminal = terminal;
            }
        }
    }

    if (cardTerminal != null) {
        cardTerminal.waitForCardPresent(0);
    } else {
        throw new RuntimeException("No card found!");
    }

    logger.info("Using -> " + cardTerminal.getName());

    Card card = cardTerminal.connect("*");

    return new SmartcardIoTransmitter(card);
}

```

Example 14Project: *JCMathLib* File: *CardManager.java* [View source code](#)

5 votes



```

private Card waitForCard(CardTerminals terminals)
    throws CardException {
    while (true) {
        for (CardTerminal ct : terminals
            .list(CardTerminals.State.CARD_INSERTION)) {
            return ct.connect("*");
        }
        terminals.waitForChange();
    }
}

```

Example 15Project: *jdk8u-jdk* File: *TestDirect.java* [View source code](#)

5 votes



```

public static void main(String[] args) throws Exception {
    TerminalFactory terminalFactory = TerminalFactory.getDefault();
    List<CardTerminal> cardTerminals = terminalFactory.terminals().list();
    if (cardTerminals.isEmpty()) {
        System.out.println("Skipping the test: " +
            "no card terminals available");
        return;
    }
    System.out.println("Terminals: " + cardTerminals);
    CardTerminal cardTerminal = cardTerminals.get(0);
    Card card = cardTerminal.connect("DIRECT");
    card.disconnect(true);

    System.out.println("OK.");
}

```

Example 16Project: *openjdk-jdk10* File: *TestDirect.java* [View source code](#)

5 votes



```

public static void main(String[] args) throws Exception {
    TerminalFactory terminalFactory = TerminalFactory.getDefault();
    List<CardTerminal> cardTerminals = terminalFactory.terminals().list();
    if (cardTerminals.isEmpty()) {
        System.out.println("Skipping the test: " +
            "no card terminals available");
        return;
    }
    System.out.println("Terminals: " + cardTerminals);
    CardTerminal cardTerminal = cardTerminals.get(0);
    Card card = cardTerminal.connect("DIRECT");
    card.disconnect(true);

    System.out.println("OK.");
}

```

Example 17Project: *Myst* File: *CardManagement.java* [View source code](#)

5 votes



```
private static void connectToAllCardsByTerminalFactory(TerminalFactory factory, byte[] appAID, ArrayList<CardChannel> cardsList) throw
    ArrayList<CardTerminal> terminals = new ArrayList<>();

    Card card = null;
    try {
        for (CardTerminal t : factory.terminals().list()) {
            terminals.add(t);
            if (t.isCardPresent()) {
                System.out.print("Connecting...");
                card = t.connect("*"); // Connect with the card

                System.out.println(" Done.");

                System.out.print("Establishing channel...");
                CardChannel channel = card.getBasicChannel();

                System.out.println(" Done.");

                // Select applet (mpcaplet)
                System.out.println("Smartcard: Selecting applet...");
                CommandAPDU cmd = new CommandAPDU(appAID);
                ResponseAPDU response = transmit(channel, cmd);

                if (response.getSW() == (ISO7816.SW_NO_ERROR & 0xffff)) {
                    cardsList.add(channel);
                }
            }
        }
    } catch (Exception e) {
        System.out.println("Failed.");
    }

    System.out.println("MPC cards found: " + cardsList.size());
}
```

Example 18Project: *openjdk9* File: *TestDirect.java* [View source code](#)

5 votes



```
public static void main(String[] args) throws Exception {
    TerminalFactory terminalFactory = TerminalFactory.getDefault();
    List<CardTerminal> cardTerminals = terminalFactory.terminals().list();
    if (cardTerminals.isEmpty()) {
        System.out.println("Skipping the test: " +
            "no card terminals available");
        return;
    }
    System.out.println("Terminals: " + cardTerminals);
    CardTerminal cardTerminal = cardTerminals.get(0);
    Card card = cardTerminal.connect("DIRECT");
    card.disconnect(true);

    System.out.println("OK.");
}
```

Example 19Project: *jdk8u_jdk* File: *TestDirect.java* [View source code](#)

5 votes



```
public static void main(String[] args) throws Exception {
    TerminalFactory terminalFactory = TerminalFactory.getDefault();
    List<CardTerminal> cardTerminals = terminalFactory.terminals().list();
    if (cardTerminals.isEmpty()) {
        System.out.println("Skipping the test: " +
            "no card terminals available");
        return;
    }
    System.out.println("Terminals: " + cardTerminals);
    CardTerminal cardTerminal = cardTerminals.get(0);
    Card card = cardTerminal.connect("DIRECT");
    card.disconnect(true);

    System.out.println("OK.");
}
```

Example 20Project: *lookaside_java-1.8.0-openjdk* File: *TestDirect.java* [View source code](#)

5 votes



```
public static void main(String[] args) throws Exception {
    TerminalFactory terminalFactory = TerminalFactory.getDefault();
    List<CardTerminal> cardTerminals = terminalFactory.terminals().list();
    if (cardTerminals.isEmpty()) {
        System.out.println("Skipping the test: " +
            "no card terminals available");
        return;
    }
    System.out.println("Terminals: " + cardTerminals);
    CardTerminal cardTerminal = cardTerminals.get(0);
    Card card = cardTerminal.connect("DIRECT");
    card.disconnect(true);

    System.out.println("OK.");
}
```

Example 21

Project: *eid-applet* File: *PcscEid.java* [View source code](#)

5 votes



```

public ResponseAPDU transmit(byte[] command, Card card, CardChannel cardChannel) throws CardException {
    if (this.ioctl == null) {
        // PPDU
        return cardChannel.transmit(new CommandAPDU(0xff, 0xc2, 0x01, this.feature, command));
    } else {
        byte[] result = card.transmitControlCommand(this.ioctl, command);
        ResponseAPDU responseAdu = new ResponseAPDU(result);
        return responseAdu;
    }
}

```

Example 22

Project: *eid-applet* File: *PcscEid.java* [View source code](#)

5 votes



```

public byte[] transmitByteResponse(byte[] command, Card card, CardChannel cardChannel) throws CardException {
    if (this.ioctl == null) {
        // PPDU
        return cardChannel.transmit(new CommandAPDU(0xff, 0xc2, 0x01, this.feature, command)).getData();
    } else {
        byte[] result = card.transmitControlCommand(this.ioctl, command);
        return result;
    }
}

```

Example 23

Project: *eid-applet* File: *PcscEid.java* [View source code](#)

5 votes



```

public void logoff(String readerName) throws Exception {
    this.view.addDetailMessage("logoff from reader: \"" + readerName + "\"");
    TerminalFactory factory = TerminalFactory.getDefault();
    CardTerminals cardTerminals = factory.terminals();
    CardTerminal cardTerminal = cardTerminals.getTerminal(readerName);
    if (null == cardTerminal) {
        this.view.addDetailMessage("logoff: card reader not found: " + readerName);
        List<String> readerList = getReaderList();
        this.view.addDetailMessage("reader list: " + readerList);
        // throw new RuntimeException("card reader not found: " +
        // readerName);
        // we won't fail in this case...
        return;
    }
    Card card = cardTerminal.connect("T=0");
    try {
        CardChannel cardChannel = card.getBasicChannel();
        CommandAPDU logoffAdu = new CommandAPDU(0x80, 0xE6, 0x00, 0x00);
        ResponseAPDU responseAdu = cardChannel.transmit(logoffAdu);
        this.view.addDetailMessage("logoff... " + readerName);
        if (0x9000 != responseAdu.getSW()) {
            this.view.addDetailMessage("logoff status word: " + Integer.toHexString(responseAdu.getSW()));
            if (0x6e00 == responseAdu.getSW()) {
                // BUD001 smart card reader work-around
                return;
            }
            throw new RuntimeException("logoff failed");
        }
    } finally {
        card.disconnect(true);
    }
}

```

Example 24

Project: *javaenvreader* File: *SmartcardioTerminalProviderImpl.java* [View source code](#)

5 votes



```

@Override
public CardConnection connectTerminal(String name) throws TerminalException {
    try {
        CardTerminal smartCardIOTerminal = terminals.getTerminal(name);
        Card _card = smartCardIOTerminal.connect("*");
        return new SmartcardioCardConnection(_card, smartCardIOTerminal);
    } catch (CardException ex) {
        throw new TerminalException(ex);
    }
}

```

Example 25

Project: *animameia* File: *Smart.java* [View source code](#)

5 votes



```

public static void main(String[] args) {
    try {
        // show the list of available terminals
        TerminalFactory factory = TerminalFactory.getDefault();
        List<CardTerminal> terminals = factory.terminals().list();
    }
}

```



```
// get the first terminal
if (terminals.isEmpty()) {
    System.out.println("No terminals found!");
} else {
    System.out.println("Terminals: " + terminals);
    CardTerminal terminal = terminals.get(0);
    // establish a connection with the card
    // Card card = terminal.connect("T=1");
    Card card = terminal.connect("DIRECT");
    System.out.println("card: " + card);
    byte[] ccidResp = card.transmitControlCommand(
        CM_IOCTL_GET_FEATURE_REQUEST, new byte[] {});
    System.out.println(HexString.bufferToHex(ccidResp));
    CardChannel channel = card.getBasicChannel();
    channel.transmit(new CommandAPDU(new byte[]{0,1,2,3,4,5,6}));
    // disconnect
    card.disconnect(false);
}
} catch (Exception e) {
    System.err.println(e.getLocalizedMessage());
}
}
```

Example 26Project: commons-eid File: MixedDetectionExamples.java [View source code](#)

5 votes



```
@Override
public void cardInserted(final CardTerminal cardTerminal, final Card card) {
    if (card != null) {
        System.out.println("Other Card ["
            + String.format("%x", new BigInteger(1, card.getATR()
                .getBytes())) + "] Inserted Into Terminal ["
            + cardTerminal.getName() + "]");
    } else {
        System.out.println("Other Card Inserted Into Terminal ["
            + cardTerminal.getName() + "] but failed to connect()");
    }
}
}
```

Example 27Project: commons-eid File: SimulatedCardTerminal.java [View source code](#)

5 votes



```
@Override
public Card connect(final String protocol) throws CardException {
    if (!isCardPresent()) {
        throw new CardException("No Card Present");
    }
    return this.card;
}
}
```

Example 28Project: commons-eid File: CardAndTerminalManagerExercises.java [View source code](#)

5 votes



```
@Override
public void cardInserted(final CardTerminal cardTerminal, final Card card) {
    if (card != null) {
        LOGGER.debug("Card [{}] Inserted Into Terminal [{}]", StringUtils.atrToString(card.getATR()),
            cardTerminal.getName() + "");
    } else {
        LOGGER.debug("Card present but failed to connect()");
    }
}
}
```

Example 29Project: commons-eid File: BeIDCardManagerExercise.java [View source code](#)

5 votes



```
@Override
public void cardInserted(final CardTerminal cardTerminal, final Card card) {
    if (card != null) {
        System.out.println("Other Card ["
            + String.format("%x", new BigInteger(1, card.getATR()
                .getBytes())) + "] Inserted Into Terminal ["
            + cardTerminal.getName() + "]");
    } else {
        System.out.println("Other Card Inserted Into Terminal ["
            + cardTerminal.getName() + "] but failed to connect()");
    }
}
}
```

Example 30Project: commons-eid File: CardAndTerminalManagerTests.java [View source code](#)

5 votes



```
@Override
public synchronized void cardInserted(final CardTerminal cardTerminal,
```

```

        final Card card) {
    if (this.recordedState.containsKey(cardTerminal)) {
        throw new IllegalStateException(
            "Cannot Insert 2 Cards in 1 CardTerminal");
    }
    this.recordedState.put(cardTerminal, card);
}

```

Example 31Project: commons-eid File: CardAndTerminalManager.java [View source code](#)

5 votes



```

private void listenersTerminalsWithCardsInserted(
    final Set<CardTerminal> inserted) {
    if (!inserted.isEmpty()) {
        Set<CardEventsListener> copyOfListeners;

        synchronized (this.cardEventsListeners) {
            copyOfListeners = new HashSet<CardEventsListener>(
                this.cardEventsListeners);
        }

        for (CardTerminal terminal : inserted) {
            Card card = null;

            if (this.autoconnect) {
                try {
                    card = terminal.connect(this.protocol.getProtocol());
                } catch (final CardException cex) {
                    this.logger.debug("terminal.connect("
                        + this.protocol.getProtocol() + ") failed. "
                        + cex.getMessage());
                }
            }

            for (CardEventsListener listener : copyOfListeners) {
                try {
                    listener.cardInserted(terminal, card);
                } catch (final Exception thrownInListener) {
                    this.logger
                        .error("Exception thrown in CardEventsListener.cardInserted:"
                            + thrownInListener.getMessage());
                }
            }
        }
    }
}

```

Example 32Project: commons-eid File: CCID.java [View source code](#)

5 votes



```

public CCID(final Card card, final CardTerminal cardTerminal,
    final Logger logger) {
    this.card = card;
    this.logger = logger;
    this.features = new EnumMap<FEATURE, Integer>(FEATURE.class);
    this.usesPPDU = false;

    final boolean onMSWindows = (System.getProperty("os.name") != null && System
        .getProperty("os.name").startsWith("Windows"));

    this.logger
        .debug("Getting CCID FEATURES using standard control command");
    try {
        getFeaturesUsingControlChannel(card, onMSWindows);
        if (this.features.isEmpty() && onMSWindows
            && isPPDUCardTerminal(cardTerminal.getName())) {
            // Windows 10 work-around
            getFeaturesUsingPPDU(card);
        }
    } catch (final CardException cexInNormal) {
        this.logger
            .debug("GET_FEATURES over standard control command failed: "
                + cexInNormal.getMessage());
        if (onMSWindows && isPPDUCardTerminal(cardTerminal.getName())) {
            this.logger
                .debug("Attempting To get CCID FEATURES using Pseudo-APDU Fallback Strategy");
            try {
                getFeaturesUsingPPDU(card);
            } catch (CardException cexInPseudo) {
                this.logger
                    .error("Pseudo-APDU Fallback strategy failed as well: "
                        + cexInPseudo.getMessage());
            }
        } else {
            this.logger
                .debug("Not risking PPDU Fallback strategy for CardTerminal ["
                    + cardTerminal.getName() + "] on this platform");
        }
    }
}

```

Example 33

Project: *commons-eid* File: *CCID.java* [View source code](#)

5 votes



```
private void getFeaturesUsingControlChannel(final Card card,
    final boolean onMSWindows) throws CardException {
    byte[] featureBytes = card.transmitControlCommand(onMSWindows
        ? GET_FEATURES_MICROSOFT
        : GET_FEATURES, new byte[0]);
    this.logger.debug("CCID FEATURES found using standard control command");
    for (FEATURE feature : FEATURE.values()) {
        Integer featureCode = findFeatureTLV(feature.getTag(), featureBytes);
        if (featureCode != null) {
            this.features.put(feature, featureCode);
            this.logger.debug("FEATURE " + feature.name() + " = "
                + Integer.toHexString(featureCode));
        }
    }
}
```

Example 34Project: *infobip-open-jdk-8* File: *TestDirect.java* [View source code](#)

5 votes



```
public static void main(String[] args) throws Exception {
    TerminalFactory terminalFactory = TerminalFactory.getDefault();
    List<CardTerminal> cardTerminals = terminalFactory.terminals().list();
    System.out.println("Terminals: " + cardTerminals);
    if (cardTerminals.isEmpty()) {
        throw new Exception("No card terminals available");
    }
    CardTerminal cardTerminal = cardTerminals.get(0);
    Card card = cardTerminal.connect("DIRECT");
    card.disconnect(true);

    System.out.println("OK.");
}
```

Example 35Project: *esteidhacker* File: *CardDelegate.java* [View source code](#)

5 votes



```
public static CardDelegate any(boolean sign, NotificationInterface console) throws CardException {
    CardTerminal t = EstEID.getTerminal();
    if (t == null) {
        return null;
    }
    t = LoggingCardTerminal.getInstance(t);
    Card c = t.connect("*");
    return new CardDelegate(c.getBasicChannel(), sign, console == null ? CONSOLE : console);
}
```

Example 36Project: *smartcard-io* File: *Connect.java* [View source code](#)

5 votes



```
protected void connect(CardTerminal cardTerminal) throws Exception {
    System.out.println("" + cardTerminal + " connect");
    Card card = cardTerminal.connect("*");
    try {
        System.out.println("" + card + " begin transaction");
        card.beginExclusive();
        System.out.println("" + card + " end transaction");
        card.endExclusive();
    } finally {
        System.out.println("" + card + " disconnect");
        card.disconnect(false);
    }
}
```

Example 37Project: *irma_future_id* File: *SeekTerminal.java* [View source code](#)

5 votes



```
@Override
public Card connect(String arg0) throws CardException {
    try {
        return new SeekCard(reader.openSession());
    } catch (IOException e) {
        throw new CardException(e);
    }
}
```

Example 38Project: *irma_future_id* File: *TerminalImpl.java* [View source code](#)

5 votes



```
public synchronized Card connect(String protocol) throws CardException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) {

```

```

        sm.checkPermission(new CardPermission(name, "connect"));
    }
    if (card != null) {
        if (card.isValid()) {
            String cardProto = card.getProtocol();
            if (protocol.equals("") || protocol.equalsIgnoreCase(cardProto)) {
                return card;
            } else {
                throw new CardException("Cannot connect using " + protocol
                    + ", connection already established using " + cardProto);
            }
        } else {
            card = null;
        }
    }
}
try {
    card = new CardImpl(this, protocol);
    return card;
} catch (PCSCException e) {
    if (e.code == SCARD_W_REMOVED_CARD) {
        throw new CardNotPresentException("No card present", e);
    } else {
        throw new CardException("connect() failed", e);
    }
}
}
}

```

Example 39

Project: [jnsmartcardio](#) File: [WinscardReaderTestWithCardPresent.java](#) [View source code](#)

5 votes



```

@Test public void testGetAtr() throws CardException {
    List<CardTerminal> terminalList = terminals.list();
    CardTerminal terminal = terminalList.get(0);
    Card connection = terminal.connect("");
    ATR atr = connection.getATR();
    byte[] atrBytes = atr.getBytes();
    assertNotSame(0, atrBytes.length);
    boolean hasNonZeroAtr = false;
    for (int i = 0; i < atrBytes.length; i++) {
        hasNonZeroAtr = hasNonZeroAtr || atrBytes[i] != 0;
    }
    assertTrue(hasNonZeroAtr);
}
}

```

Example 40

Project: [jnsmartcardio](#) File: [WinscardReaderTestWithCardPresent.java](#) [View source code](#)

5 votes



```

@Test public void testTransmit() throws CardException {
    List<CardTerminal> terminalList = terminals.list();
    CardTerminal terminal = terminalList.get(0);
    Card connection = terminal.connect("");
    CardChannel channel = connection.getBasicChannel();
    assertEquals(0, channel.getChannelNumber());
    ResponseAPDU response = channel.transmit(new CommandAPDU(0x00, 0xa4, 0x00, 0x00, 0));
    int sw = response.getSW();
    assertEquals(String.format("got response 0x%04x instead of 0x9000, %s", sw, response), 0x9000, sw);
}
}

```

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