**TranzWare e-Commerce Payment Gateway** (further referred to as **TWEC PG**) is the

**TranzWare e-Commerce** system unit implementing the 3-D Secure acquiring

functionality.

**TWEC PG** is a software complex designed to accept, process and manage the card

payments via Internet.

**TWEC PG** ensures complex processing of payments and paying the order starting from the

moment the order is created, through disputes maintenance, totals reconciliation,

payment statistics analysis, etc.

**TWEC PG** supports interface with the authorization system, thus, managing the payment

whole life cycle (payment itself, reversal, refund, totals reconciliation). At that, **TWEC PG**

supports 3-D Secure protocol certified by the payment systems: Verified by VISA (VbV),

MasterCard Secure Code (MCSC), American Express SafeKey and MirAccept.

**Create Order**

The request is posted from the Internet shop server to **TWEC PG** (without the customer

browser) by means of HTTPS (the POST method) via the following link: *https://<host>:port/Exec*.

**Connection Parameters**

The *Shop* posts the following connection data to the *Bank*:

The *Shop* logo to be displayed on the page used to enter card parameters

The *Shop* title on the page used to enter card parameters

URL of the page if payment has been successfully performed

URL of the page in case of the authorization decline

E-mail of the transaction results notification (optional)

E-mail of the *Shop* connection failure messages (optional)

Certificate generation request

Default language

The *Bank* posts the following connection data to the *Shop*:

Terminal ID

URL the *Customer* is forwarded to for the purchase authorization

*Bank* certificate; *shop* certificate (optional for each particular case)

When creating an order, specify the **Purchase** value in the **OrderType** field.

XML request format:

<?xml version=”1.0” encoding=”UTF-8”?>

<TKKPG>

<Request>

<Operation>**CreateOrder**</Operation>

<Language></Language>

<Order>

<OrderType>**Purchase**</OrderType>

<Merchant></Merchant>

<Amount></Amount>

<Currency></Currency>

<Description></Description>

<ApproveURL></ApproveURL>

<CancelURL></CancelURL>

<DeclineURL></DeclineURL>

</Order>

</Request>

</TKKPG>

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<?xml version=”1.0” encoding=”UTF-8”?>

<TKKPG>

<Request>

<Operation>**CreateOrder**</Operation>

<Language>RU</Language>

<Order>

<OrderType>**Purchase**</OrderType>

<Merchant>POS\_IKEA\_2</Merchant>

<Amount>123456</Amount>

<Currency>840</Currency>

<Description>xxxxxxxx</Description>

<ApproveURL>/testshopPageReturn.jsp</ApproveURL>

<CancelURL>/testshopPageReturn.jsp</CancelURL>

<DeclineURL>/testshopPageReturn.jsp</DeclineURL>

</Order>

</Request>

</TKKPG>

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**TWEC PG** response format:

<?xml version=”1.0” encoding=”UTF-8”?>

<TKKPG>

<Response>

<Operation>CreateOrder</Operation>

<Status>00</Status>

<Order>

<OrderID>828</OrderID>

<SessionID>ECDE79578768ECFBF2897A0F44CC0CEF</SessionID>

<URL>PayGateURL</URL>

</Order>

</Response>

</TKKPG>

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Status

Request execution result:

00 – successfully

30 – message invalid format (no mandatory fields etc.)

10 – the Internet shop has no access to the **Create**

**Order** operation (or the Internet shop is not registered)

54 – invalid operation

96 – system error

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The Internet shop server receives XML response to the *Create Order* operation and

redirects the customer browser to the address received in the **Order**/**URL** field. It is

required to fill the **POST** or **GET** protocol fields:

**OrderID** - order ID received in the **Order**/**OrderID** field

**SessionID** - session ID received in the **Order**/**SessionID** field

Call by the **GET** method:

https://TWPG.bank.com/index.jsp?

ORDERID=10253&SESSIONID=1661DD2BD23BC67D6CBF84FE847B369F&expm=05&expy

=17

Then the customer pays via **TWEC PG**. The payment method depends on the card

issuer capabilities, **TWEC PG** security settings for the particular Internet shop and the

card prefix.

If the customer cancels the operation, **TWEC PG** redirects the customer to the

CancelURL copied from the *Create Order* XML request.

If the operation is declined (e.g. due to the issuer refusal or **TWEC PG/**authorization

system errors), the customer is redirected to the DeclineURL copied from the *Create*

*Order* XML request.

If the operation is approved, the customer is redirected to the ApproveURL copied from

the *Create Order* XML request.

If the customer goes to any URL defined in the request (Approve, Decline, Cancel), the

Internet shop must perform the **Get Order Status** operation for the security purposes and decide whether to provide the service or not dependingon the **TWEC PG** response.

If the customer has not been redirected to the Internet shop server during the

defined period, the Internet shop server requests the order status and decides whether

to provide the service or not depending on the response (or contacts the customer if

the service cannot be provided by reason of disconnection from **TWEC PG**).

**Get Order Status**

The request is posted from the Internet shop server to **TWEC PG** (without the customer

browser) by means of HTTPS (the POST method) via the following link: *https://*

*<host>:<port>/Exec*.

To execute the operation, the <GetOrderStatus>true</GetOrderStatus> permission

must be granted in the **<MerchantList>/<Merchant>/<Operations>** merchant

operations settings section and/or in the **<MerchantProfileList>** merchant profile

settings section.

XML request format:

<?xml version=”1.0” encoding=”UTF-8”?>

<TKKPG>

<Request>

<Operation>**GetOrderStatus**</Operation>

<Language></Language>

<Order>

<Merchant></Merchant>

<OrderID></OrderID>

</Order>

<SessionID></SessionID>

</Request>

</TKKPG>

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<?xml version=”1.0” encoding=”UTF-8”?>

<TKKPG>

<Request>

<Operation>**GetOrderStatus**</Operation>

<Language>RU</Language>

<Order>

<Merchant>POS\_IKEA\_2</Merchant>

<OrderID></OrderID>

</Order>

<SessionID></SessionID>

</Request>

</TKKPG>

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**TWEC PG** response format:

<?xml version="1.0" encoding="UTF-8"?>

<TKKPG>

<Response>

<Operation>GetOrderStatus</Operation>

<Status>30</Status>

<Order>

<OrderID></OrderID>

<OrderStatus></OrderStatus>

</Order>

<AdditionalInfo>

<Receipt>BASE64-encode-info</Receipt>

</AdditionalInfo>

</Response>

</TKKPG>

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The order can have the following statuses:

**CREATED** (assigned after the **OrderID** and **SessionID** parameters are generated but

before the order is paid)

**ON-LOCK** (assigned to avoid payment duplication)

The **ON-LOCK** status is assigned when executing the **PayOrder** procedure. Once the

authorization process is complete, the **ON-LOCK** status is changed to **APPROVED**

or **DECLINED**.

**ON-PAYMENT**

**APPROVED**

**CANCELED** (operation execution is interrupted by customer)

**DECLINED** (for example, the *Prefix not found* error occurred)