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unTill TPAPI-POS Interface Description version 2

TPAPI-POS Interface description

TPAPI 2 Version History

prot. ver	yyyy/mm/dd	avail. in unTill version	changes
2.0	2015/04/01	108.1	(Initial version)
2.1	2015/04/03	108.3	Getting receipt in ClientDeposit function
2.2	2015/04/06	109	GetDepositsReport function added
2.3	2015/04/23	109	"DiscountReason" extra added to GetDetailedTurnoverReportRequest
2.4	2015/05/05	109	"ModificationDates" extra added to GetDetailedTurnoverReportRequest
2.5	2015/05/20	109	"UpdateClients" returns ID of created and updated clients in response's Extra
2.6	2015/06/03	110	TPAPI performance improvements
2.7	2015/06/24	110	GetInOutCashReport function added
2.8	2015/07/22	110.12	Possibility to create Orders In Future with CreateOrder function
2.9	2015/09/02	110.12	"void" extra in TransactionOrderItem
2.10	2015/09/17	111.1	"IncludeReopen" extra added in GetDetailedTurnoverReportRequest
2.11	2015/09/18	111.1	New function " PrintProforma " added
2.12	2015/10/20	111.1	<ul style="list-style-type: none"> functions GetCountries, UpdateCountries added country_id added in Client Extras
2.13	2015/10/29	111.1	New function " PrintReport "
2.14	2015/12/24	113.1	Tips supported in Pay request
2.15	2016/01/21	113.1	<ul style="list-style-type: none"> unTill version returned in GetVersion function GetDiscountGroupsInfo function added
2.16	2016/04/25	115.1	"proforma_signature" extra added in Pay request
2.17	2016/05/13	115.1	<ul style="list-style-type: none"> "last" extra added in OrderItem
2.18	2016/06/20	115.1	<ul style="list-style-type: none"> "smartcard_uid": extra added in Client and GetClientsEx request (filter) "plu" extra added in ArticleInfo and GetArticlesInfo request (filter) AddPouring function added "EftExtras" added in GetDetailedTurnoverReportRequest "TranExtras" added in GetDetailedTurnoverReportRequest
2.19	2016/11/21	116.1	<ul style="list-style-type: none"> GetCourses function added Possibility to make deposit for Order In Future
2.20	2017/05/11	120.1	<ul style="list-style-type: none"> 1.2. TPAPI Entry Point and 1.3. Enabling TPAPI in unTill sections updated purchase_price extra added in ArticleInfo service_charge_amount extra added in TurnoverTransaction

TPAPI POS v2.xx documentation can be found [here](#).

TPAPI POS version 1 Interface Description can be found in [separate document](#)

What's new in version 2.0

- New requests (2.27 and above)
- New extras available in GetClientsExRequest

Table Of Contents

[TPAPI 2 Version History](#)

[What's new in version 2.0](#)

[1. Architecture Overview](#)

- [1.1. Control Flow](#)
- [1.2. TPAPI Entry Point](#)
- [1.3. Enabling TPAPI in unTill](#)
- [1.4. Enabling waiter to be available in TPAPI](#)
- [1.5. TPAPI versions compatibility](#)

[2. unTill POS API](#)

- [2.1. Ordering Overview](#)
- [2.2. GetArticles - Brief list of active articles in database](#)
 - [2.2.1. GetArticlesRequest](#)
 - [2.2.2. GetArticlesResponse](#)
- [2.3. GetArticlesInfo - The detailed list of active articles in database](#)
 - [2.3.1. GetArticlesInfoRequest](#)
 - [2.3.2. GetArticlesInfoResponse](#)
- [2.4. GetOptionsInfo - The list of active options in database](#)
 - [2.4.1. GetOptionsInfoRequest](#)
 - [2.4.2. GetOptionsInfoResponse](#)
- [2.5. GetDepartmentsInfo - The list of active departments in database](#)
 - [2.5.1. GetDepartmentsInfoRequest](#)
 - [2.5.2. GetDepartmentsInfoResponse](#)
- [2.6. GetGroupsInfo - The list of active food groups in database](#)
 - [2.6.1. GetGroupsInfoRequest](#)
 - [2.6.2. GetGroupsInfoResponse](#)
- [2.7. GetCategoriesInfo - The list of active categories in database](#)
 - [2.7.1. GetCategoriesInfoRequest](#)
 - [2.7.2. GetCategoriesInfoResponse](#)
- [2.8. GetPricesInfo - The list of active prices](#)
 - [2.8.1. GetPricesInfoRequest](#)
 - [2.8.2. GetPricesInfoResponse](#)
- [2.9. GetPaymentsInfo - The list of available payment types](#)

- [2.9.1. GetPaymentsInfoRequest](#)
- [2.9.2. GetPaymentsInfoResponse](#)
- [2.10. GetSalesAreasInfo - The list of active sales areas](#)
 - [2.10.1. GetSalesAreasInfoRequest](#)
 - [2.10.2. GetSalesAreasInfoResponse](#)
- [2.11. GetActiveOrders - List of active orders within sales-areas](#)
 - [2.11.1. GetActiveOrdersRequest](#)
 - [2.11.2. GetActiveOrdersResponse](#)
- [2.12. CreateOrder - Creates order](#)
 - [2.12.1. CreateOrderRequest](#)
 - [2.12.2. CreateOrderResponse](#)
- [2.13. CloseOrder - Close order and pay with specified payment type](#)
 - [2.13.1. CloseOrderRequest](#)
 - [2.13.2. CloseOrderResponse](#)
- [2.14. PosRestart - Restarts POS](#)
 - [2.14.1. PosRestartRequest](#)
 - [2.14.2. PosRestartResponse](#)
- [2.15. GetUsersInfo - Get list of active users](#)
 - [2.15.1. GetUsersInfoRequest](#)
 - [2.15.2. GetUsersInfoResponse](#)
- [2.16. GetTimeAttendanceReport - Read Time&Attendance Report](#)
 - [2.16.1. GetTimeAttendanceRequest](#)
 - [2.16.2. GetTimeAttendanceResponse](#)
- [2.17. GetTurnoverReport - Read Turnover Report](#)
 - [2.17.1. GetTurnoverReportRequest](#)
 - [2.17.2. GetTurnoverReportResponse](#)
- [2.18. GetDetailedTurnoverReport - Read Detailed Turnover Report](#)
 - [2.18.1. GetDetailedTurnoverReportRequest](#)
 - [2.18.2. Available extra fields](#)
 - [2.18.3. GetDetailedTurnoverReportResponse](#)
- [2.19. GetClients - Read The List of Clients.](#)
 - [2.19.1. GetClientsRequest](#)
 - [2.19.2. GetClientsResponse](#)
- [2.20. GetVersion - Read Current TPAPI Protocol Version](#)
 - [2.20.1. GetVersionRequest](#)
 - [2.20.2. GetVersionResponse](#)
- [2.21. GetCancelledItemsReport - Read List of Cancelled Items](#)
 - [2.21.1. GetCancelledItemsReportRequest](#)
 - [2.21.2. GetCancelledItemsReportResponse](#)
- [2.22. ClientDeposit - Makes Deposit to Client Account](#)
 - [2.22.1. ClientAccountDepositRequest](#)

- [2.22.2. ClientAccountDepositResponse](#)
- [2.23. UpdateClients - Create or Update clients in database.](#)
 - [2.23.1. UpdateClientsRequest](#)
 - [2.23.2. UpdateClientsResponse](#)
- [2.24. GetClientsEx - Returns the list of clients using additional filters](#)
 - [2.24.1. GetClientsExRequest](#)
 - [2.24.2. GetClientsResponse - ref. response for GetClients method. Clients sorted by number.](#)
- [2.25. NextCourse - Apply next course to table](#)
 - [2.25.1. NextCourseRequest](#)
 - [2.25.2. NextCourseResponse](#)
- [2.26. SetTableCourse - Apply course to certain table](#)
 - [2.26.1. SetTableCourseRequest](#)
 - [2.26.2. SetTableCourseResponse](#)
- [2.27. GetActiveTableInfo - Information about open table](#)
 - [2.27.1. GetActiveTableInfoRequest](#)
 - [2.27.2. GetActiveTableInfoResponse](#)
- [2.28. FindTransactions - Find transactions in database](#)
 - [2.28.1. FindTransactionsRequest](#)
 - [2.28.2. FindTransactionsResponse](#)
- [2.29. GetServerInfo - Get Server Information](#)
 - [2.29.1. GetServerInfoRequest](#)
 - [2.29.2. GetServerInfoResponse](#)
- [2.30. GetBOStatus - Get Current Backoffice Status](#)
 - [2.30.1. GetBOStatusRequest](#)
 - [2.30.2. GetBOStatusResponse](#)
- [2.31. Pay - Make payment on table with specified payment type](#)
 - [2.31.1. PayRequest](#)
 - [2.31.2. PayResponse](#)
- [2.32. GetDepositsReport - Read List of Cancelled Items](#)
 - [2.32.1. GetDepositsReportRequest](#)
 - [2.32.2. GetDepositsReportResponse](#)
- [2.33. GetInOutCashReport - Read "In/Out Cash Report"](#)
 - [2.33.1. GetInOutCashReportRequest](#)
 - [2.33.2. GetInOutCashReportResponse](#)
- [2.34. PrintProforma - Print proforma for a table](#)
 - [2.34.1. PrintProformaRequest](#)
 - [2.34.2. PrintProformaResponse](#)
- [2.35. GetCountries - Return list of countries](#)
 - [2.35.1. GetCountriesRequest](#)
 - [2.35.2. GetCountriesResponse](#)

[2.36. UpdateCountries - Add or update countries](#)

[2.36.1. UpdateCountriesRequest](#)

[2.36.2. UpdateCountriesResponse](#)

[2.37. PrintReport - Print report](#)

[2.37.1. PrintReportRequest](#)

[2.37.2. PrintReportResponse](#)

[2.38. GetDiscountGroupsInfo - Get discount groups information](#)

[2.38.1. GetDiscountGroupsInfoRequest](#)

[2.38.2. GetDiscountGroupsInfoResponse](#)

[2.39. AddPouring - Add pouring data](#)

[2.39.1. AddPouringRequest](#)

[2.39.2. AddPouringResponse](#)

[2.40. GetCourses - Get list of active courses](#)

[2.40.1. GetCoursesRequest](#)

[2.40.2. GetCoursesResponse](#)

[ArticleInfo](#)

[ArticleDiscountItemInfo](#)

[ArticleShort](#)

[CancelledItem](#)

[CategoryInfo](#)

[Client](#)

[Country](#)

[Course](#)

[Credential](#)

[DepartmentInfo](#)

[DepositItem](#)

[DiscountGroupInfo](#)

[ExtraInfo](#)

[GroupInfo](#)

[HourlyWageItem](#)

[InOutCashItem](#)

[ItemPrice](#)

[KeyValue](#)

[Language](#)

[OptionInfo](#)

[OrderInfo](#)

[OrderItem](#)

[PriceInfo](#)

[PaymentInfo](#)

[Pouring](#)

[SalesAreaInfo](#)

[TableRange](#)
[TimeAttendanceRecord](#)
[TurnoverBill](#)
[TurnoverBillItem](#)
[TurnoverTransaction](#)
[TransactionBillReprint](#)
[TransactionProforma](#)
[TransactionOrder](#)
[TransactionOrderItem](#)
[TransactionBill](#)
[TransactionBillPayment](#)
[UserGroup](#)
[UserInfo](#)

[App 2. Return codes](#)

[App 3. Constants](#)

[App 4. SOAP Examples](#)

1. Architecture Overview

unTill server provides SOAP interface for 3rd party applications which may be used for remotely working with POS: reading configuration, making orders, etc (TPAPI-POS API)

1.1. Control Flow

- 3rd party software calls SOAP functions, provided by untillsrv;
- unTill Server communicates to special instance of unTill.exe which runs in background
- unTill.exe performs required actions and sends back results

1.2. TPAPI Entry Point

TPAPI POS **WSDL** can be obtained from running untillsrv instance using HTTP address like:

`http://<host-name>:<port>/wsdl/ITPAPIPOS`

URL example: <http://localhost:3063/wsdl/ITPAPIPOS>

WSDL can be used to generate client for TPAPI web-service on any programming language. Default port is UNTILLSRV_PORT+3 but may be redefined in untill.ini if required:

```
[common]
soapport=7777
```

UNTILLSRV_PORT is normally 3060, if not redefined in untill.ini with “port” setting.

Important: do not specify “soapport” to other values in the range UNTILLSRV_PORT ..

UNTILLSRV_PORT+5, because they can be blocked by other unTill services, only UNTILLSRV_PORT+3 is always reserved for TPAPI in this range.

1.3. Enabling TPAPI in unTill

To enable TPAPI interface, select “Common Data / Hardware / Computers” in Backoffice Navigation Tree, then open desired workstation and switch “Enable TPAPI” checkbox on.

Note. “soapport” setting defines TCP port for listening incoming SOAP connections. Normally you should specify N+3 where N is the number defined by “port” setting in untill.ini. Do not specify other values in the range N..N+5, because they can be blocked by other unTill services, but N+3 is always reserved for TPAPI.

1.4. Enabling waiter to be available in TPAPI

Each call to SOAP includes waiter name and TPAPI Password. To allow waiter be used in TPAPI calls, special “TPAPI Password” field must be specified in unTill BO for this waiter. Additional field is introduced since Passwords are normally very simple and can be easily hacked. Also, when configuring TPAPI user, ensure that “POS password” contains only digits.

1.5. TPAPI versions compatibility

Normally TPAPI POS protocol versions are backwards-compatible, so you can update unTill and do not take care that something will be broken in newer TPAPI version. If you are working with web-service using stub class generated by WSDL it also work in most cases. However it was found that stubs generated for Java (AXIS) are unable to work with an updated web-service if there were any change. This is [known](#) AXIS issue. For applications using AXIS stubs, you should take care of current TPAPI [version](#), and update stub code each time protocol version is changed.

MS.NET clients does not produces any problem on webservice update.

2. unTill POS API

unTill POS API provides set of functions which may be used for requesting info about POS configuration and executing actions like creating order, closing order, etc.

The following functions available in unTill POS API:

- [GetArticles](#) - brief list of active articles
- [GetArticlesInfo](#) - detailed list of active articles
- [GetOptionsInfo](#) - active options
- [GetDepartmentsInfo](#) - active departments
- [GetGroupsInfo](#) - active groups
- [GetCategoriesInfo](#) - active categories
- [GetPricesInfo](#) - list of active prices
- [GetPaymentsInfo](#) - list of available payment types

- [GetSalesAreasInfo](#) - list of active sales areas
- [GetActiveOrders](#) - information about tables within sales-areas
- [CreateOrder](#) - create order on non-occupied table
- [CloseOrder](#) - close and pay order with certain payment type
- [PosRestart](#) - restart TPAPI POS
- [GetUsersInfo](#) - get list of users
- [GetTimeAttendanceReport](#) - get "Time and attendance" report
- [GetTurnoverReport](#) - get turnover report
- [GetDetailedTurnoverReport](#) - get detailed turnover report
- [GetVersion](#) - get current TPAPI protocol version
- [GetCancelledItemsReport](#) - get cancelled items report
- [ClientDeposit](#) - Makes deposit to client account
- [UpdateClients](#) - Create or Update clients in database
- [GetClientsEx](#) - Returns the list of clients using additional filters
- [NextCourse](#) - Apply next course to table
- [SetTableCourse](#) - set course for certain table containing active order
- [GetActiveTableInfo](#) - returns info about open table
- [FindTransactions](#) - Find transactions in database
- [GetServerInfo](#) - Get Server Information
- [GetBOStatus](#) - Get Current Backoffice Status
- [Pay](#) - Make payment on table with specified payment type
- [GetDepositsReport](#) - Read List of Cancelled Items
- [GetInOutCashReport](#) - Read "In/Out Cash Report"
- [PrintProforma](#) - Print proforma for a table
- [GetCountries](#) - Read list of countries
- [UpdateCountries](#) - Add/update countries
- [PrintReport](#) - Print report to printer or return as plain text
- [GetDiscountGroupsInfo](#) - Get discount groups information

The POS configuration should be read with the following algorithm:

1. Read the list of sales areas with [GetSalesAreasInfo](#)
2. Read the list of prices with [GetPricesInfo](#)
3. Read the list of options with [GetOptionsInfo](#)
4. Read the list of articles with [GetArticlesInfo](#)
5. Read the list of payments with [GetPaymentsInfo](#)

This sequence may be repeated from time to time to keep POS configuration up-to-date on a client side.

After configuration received, [GetActiveOrders](#) may be called at any time to get current availability of tables. Use [CreateOrder](#) for creating new order, and [CloseOrder](#) for paying and closing existing order.

Some functions require TableNumber and TablePart, where TablePart is a letter in a range from "a" to "f". Other values not accepted.

2.1. Ordering Overview

The following articles and option types can be ordered with TPAPI:

- regular articles (BO: Articles)
- supplements for an article (articles from an option specified in BO: Department / Supplement)
- condiments for an article (articles from an option specified in BO: Department / Condiment)
- must-have options for an article (articles from an options listed in BO: Articles / tab “Options”)
- free-option for an article (articles from an option specified in BO: Articles / tab “Options” / field “Free Option”)
- menu items. If certain article is a menu (Checkbox “Menu” in BO: Articles), the list of “must have” options for this article acts as a list of article-groups. Client may order one article per each option, this article will be included into order as “menu item”
- article messages: some text which may be informative either for certain order item, the order part or the complete order.

To identify item type, there is “order_item_type” field in OrderItem structure. It is not required to specify in CreateOrder request if certain article has “menu” enabled: only requirement is to identify it’s menu items. Below there are few examples. Order items shown hierarchically just for convenience. In the list of items they follow one after another.

1. List of regular articles: order_item_type = 0 used for all items
2. Article with “must-have” options:
 - article 1: order_item_type = 0
 - option1_article1 : order_item_type = 1
 - option1_article2 : order_item_type = 1
 - ...
3. Article with different types of options:
 - article 1: order_item_type = 0
 - option1_article1 : order_item_type = 1 (must-have option)
 - option1_article2 : order_item_type = 1 (must-have option)
 - free_option_article1 : order_item_type = 2 (free option)
 - condiment_article1: order_item_type = 4 (condiment)
 - supplement_article1: order_item_type = 3 (supplement)
 - supplement_article2: order_item_type = 3 (supplement)
4. Menus:
 - menu 1: order_item_type = 0 (article, with “menu” enabled)
 - option1_article1 : order_item_type = 5 (menu item)
 - option2_article1 : order_item_type = 5 (menu item)
 - option3_article1 : order_item_type = 5 (menu item)
5. Each menu item may also have different types of options:
 - menu 1: order_item_type = 0 (article, with “menu” enabled)
 - option1_article1 : order_item_type = 5 (menu item)
 - option2_article1 : order_item_type = 5 (menu item)
 1. optionA_article1: order_item_type = 1 (must have option)
 2. optionB_article1: order_item_type = 1 (must have option)
 - option3_article1 : order_item_type = 5 (menu item)

2.2. GetArticles - Brief list of active articles in database

2.2.1. GetArticlesRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	SalesAreald	Long		Specify to request information for articles of certain sales-area only

2.2.2. GetArticlesResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Articles	ArticleShort []	Array of articles, see App 1: Types and Classes
4	Extra	ExtraInfo []	List of extra fields

2.3. GetArticlesInfo - The detailed list of active articles in database

Returns the list of articles with their options. Each article represented by ArticleInfo structure. Condiment, supplement and free options returned in separate fields, and “mist have” options returned as a list of Ids. If article is a menu, it returns “true” in its `_menu` field.

If ArticleId specified, only one article returned.

If SalesAreald specified in request, only those articles returned, which is available in this sales area.

2.3.1. GetArticlesInfoRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	ArticleId	Long		Specify to request information for certain article only
4	SalesAreald	Long		Specify to request information for articles of certain sales-area only

5	GetInactive	Boolean		If true, inactive articles will be returned as well
6	Extra	ExtraInfo[]		List of extra fields

* Extra fields available for using in request:

- course_id - ID of course
- "DailyStock=1" - additionally return information about daily stock status for each article. Data returned in "ArticleInfo.Extra" field with keys "daily_stock_active" and "daily_stock_qty". By default daily stock information is not returned.
- plu="LIST_OF_PLU" - search articles by PLU number. LIST_OF_PLU can be either single PLU number, or comma-separated PLUs.

2.3.2. GetArticlesInfoResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Articles	ArticleInfo[]	Array of articles, see App 1: Types and Classes
4	Extra	ExtraInfo[]	List of extra fields*

2.4. GetOptionsInfo - The list of active options in database

2.4.1. GetOptionsInfoRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	OptionId	Long		Specify to request information for certain option only
4	SalesAreald	Long		Specify to request information for options of certain sales-area only

2.4.2. GetOptionsInfoResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes

3	Options	OptionInfo[]	Array of options, see App 1: Types and Classes
4	Extra	ExtraInfo[]	List of extra fields

2.5. GetDepartmentsInfo - The list of active departments in database

2.5.1. GetDepartmentsInfoRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	SalesAreald	Long		Specify to request information for departments from certain sales-area only
4	DepartmentId	Long		Specify to request information for certain department only

2.5.2. GetDepartmentsInfoResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Departments	DepartmentInfo[]	Array of departments, see App 1: Types and Classes
4	Extra	ExtraInfo[]	List of extra fields

2.6. GetGroupsInfo - The list of active food groups in database

2.6.1. GetGroupsInfoRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI

2.6.2. GetGroupsInfoResponse

#	parameter	type	description
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1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Groups	GroupInfo []	Array of groups, see App 1: Types and Classes
4	Extra	ExtraInfo []	List of extra fields: <ul style="list-style-type: none"> • bookkeeping_vat • bookkeeping_turnover

2.7. GetCategoriesInfo - The list of active categories in database

2.7.1. GetCategoriesInfoRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI

2.7.2. GetCategoriesInfoResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Categories	CategoryInfo []	Array of categories, see App 1: Types and Classes
4	Extra	ExtraInfo []	List of extra fields

2.8. GetPricesInfo - The list of active prices

2.8.1. GetPricesInfoRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI

2.8.2. GetPricesInfoResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Prices	PriceInfo []	Array of active prices, see App 1: Types and Classes
4	Extra	ExtraInfo []	List of extra fields

2.9. GetPaymentsInfo - The list of available payment types

2.9.1. GetPaymentsInfoRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI

2.9.2. GetPaymentsInfoResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Payments	PaymentInfo []	Array of payments, see App 1: Types and Classes
4	Extra	ExtraInfo []	List of extra fields

2.10. GetSalesAreasInfo - The list of active sales areas

2.10.1. GetSalesAreasInfoRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI

2.10.2. GetSalesAreasInfoResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	SalesAreas	SalesAreaInfo []	Array of active sales areas, see App 1: Types and Classes
4	Extra	ExtraInfo []	List of extra fields

2.11. GetActiveOrders - List of active orders within sales-areas

2.11.1. GetActiveOrdersRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	SalesAreald	Long		Specify to request information for tables of certain sales-area only

2.11.2. GetActiveOrdersResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Orders	OrderInfo []	List of orders, see App 1: Types and Classes
4	Extra	ExtraInfo []	List of extra fields

2.12. CreateOrder - Creates order

2.12.1. CreateOrderRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	TableNumber	Integer	+	

4	TablePart	String	+	"a" - "f" (*)
5	ClientName	String		Client name
6	OrderName	String		Order name
7	OrderDescr	String		Order description
8	Covers	Integer		Number of covers
9	Items	OrderItem[]	+	Order items, see App 1: Types and Classes
10	Extra	ExtraInfo[]		List of extra fields(**)
11	ClientId	Long		Client ID

(*) Table parts usage::

1. "a" to "f" table parts available
2. If no parts occupied - you can only order at "a"
3. If only 1 part (X) occupied on table - then it is possible to make order at this part, or at table part (X + 1), if available
4. If more than 1 part occupied, then you can make order on any

() The following extra fields accepted:**

- "extraN" where N is 1 to 10. These fields available in unTill datasets "Order" (screens/tickets), "Bills" (reports). The same values will be returned in [GetActiveOrders](#) response in "extra" field.
- "OifDate" (syntax is "YYYYMMDD-HHNN") - when specified, it creates "Order In Future".
- "OifDepositAmount" - Order in future deposit amount, in CENTS
- "OifDepositPaymentModelId" - Payment Mode Id for the order in future deposit

2.12.2. CreateOrderResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes

2.13. CloseOrder - Close order and pay with specified payment type

2.13.1. CloseOrderRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	TableNumber	Integer	+	

4	TablePart	String	+	
5	PaymentId	Long	+	ID of payment to use
6	Extra	ExtraInfo[]		List of extra fields

2.13.2. CloseOrderResponse

#	parameter	type	description	
1	ReturnCode	Integer	See App 2: Return Codes	
2	ReturnMessage	String	Error text, ref. App 2: Return Codes	

2.14. PosRestart - Restarts POS

2.14.1. PosRestartRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI

2.14.2. PosRestartResponse

#	parameter	type	description	
1	ReturnCode	Integer	See App 2: Return Codes	
2	ReturnMessage	String	Error text, ref. App 2: Return Codes	

2.15. GetUsersInfo - Get list of active users

2.15.1. GetUsersInfoRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI

2.15.2. GetUsersInfoResponse

#	parameter	type	description	
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1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Users	UserInfo[]	List of active users
4	Extra	ExtraInfo[]	List of extra fields

2.16. GetTimeAttendanceReport - Read Time&Attendance Report

2.16.1. GetTimeAttendanceRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
4	UserId	Long		If specified, only report for this user returned, otherwise by all users
5	From	Timestamp	+	Report period start
6	Till	Timestamp	+	Report period end

2.16.2. GetTimeAttendanceResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Data	TimeAttendanceRecord[]	List of time & attendance records
4	Extra	ExtraInfo[]	List of extra fields

2.17. GetTurnoverReport - Read Turnover Report

Returns the list of transactions with ordered items included

2.17.1. GetTurnoverReportRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
4	UserId	Long		If specified, only report for this user returned, otherwise by all users

5	SalesAreald	Long		If specified, only report for this sales area returned, otherwise for all sales areas
6	From	Timestamp	+	Report period start
7	Till	Timestamp	+	Report period end

2.17.2. GetTurnoverReportResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Data	TurnoverBill[]	List of bills with included items
4	Extra	ExtraInfo[]	List of extra fields

2.18. GetDetailedTurnoverReport - Read Detailed Turnover Report

Returns the detailed list of transactions over specified period. For each transaction list of orders and list of bills returned.

2.18.1. GetDetailedTurnoverReportRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	From	Timestamp	+	Report period start
4	Till	Timestamp	+	Report period end
5	SalesAreald	Long		Only show transactions from given Sales Area
6	Extra	ExtraInfo[]		List of extra fields (see below)

2.18.2. Available extra fields

- **OnlyPaid:** True - includes only order items which has been paid during this period. By default this property is "False"
- **TaxesPerBill:** True - return information about extra taxes in [TurnoverTransaction](#).ExtraFields:
 - service_charge_amount
 - vat_on_service_charge_amount
 - service_tax_amount
 - service_tax_on_service_charge_amount
- **TaxesPerOrderItem:** True - return information about extra taxes in [TransactionOrderItem](#).ExtraFields:
 - service_charge_amount
 - vat_on_service_charge_amount
 - service_tax_amount
 - service_tax_on_service_charge_amount
- **DiscountReason:** True - name of discount reason returned in [TransactionOrderItem](#).ExtraFields

- (Key="discount_reason")
- **ModificationDates:** True - transaction modification dates returned in [TurnoverTransaction](#).ExtraFields (Key="modified")
 - **IncludeReopen:** True - re-opened bills included in transactions (disabled by default). E.g. when bill paid with CASH then re-opened and paid by VISA, all three bills will be included:
 - positive CASH
 - negative CASH
 - positive VISA
 - **EftExtras:** Comma-separated list of EFT fields which should be returned in [TransactionBillPayment](#)'s extras for card payments. List of possible fields can be found in [App 3. Constants](#). The meaning of values contained in those fields depends on EFT model used for card payment.
 - Example: "cardname, field15"
 - **TranExtras:** True - return user-defined extra fields in [TurnoverTransaction](#).ExtraFields (Saved by [CreateOrder](#) request).

2.18.3. GetDetailedTurnoverReportResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Data	TurnoverTransaction []	List of transactions with included orders & payments
4	Extra	ExtraInfo []	

2.19. GetClients - Read The List of Clients.

2.19.1. GetClientsRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI

2.19.2. GetClientsResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Clients	Client []	List of clients
4	Extra	ExtraInfo []	List of extra fields

2.20. GetVersion - Read Current TPAPI Protocol Version

2.20.1. GetVersionRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI

2.20.2. GetVersionResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Major	Integer	version major number
4	Minor	Integer	version minor number
5	Extra	ExtraInfo []	List of extra fields ¹

¹ Extra fields in GetVersionResponse:

- `untill_version` - returns unTill application version (always returned)

2.21. GetCancelledItemsReport - Read List of Cancelled Items

Returns the list of items which has been cancelled (added to some order and then removed by “Cancel” or “Void” button)

2.21.1. GetCancelledItemsReportRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	From	Timestamp	+	Report period start
4	Till	Timestamp	+	Report period end

2.21.2. GetCancelledItemsReportResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Items	CancelledItem []	List of cancelled items
4	Extra	ExtraInfo []	List of extra fields

2.22. ClientDeposit - Makes Deposit to Client Account

2.22.1. ClientAccountDepositRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	ClientId	Long	+	Client ID
4	PaymentId	Long	+	Payment ID
5	Amount	Decimal	+	Amount of deposit
6	Extra	ExtraInfo []		List of extra fields ¹

¹List of accepted extra fields:

- `get_receipt` - Instead of printing deposit receipt unTill sends it back in TPAPI ClientAccountDepositResponse as plain text. Value of ExtraInfo with this key doesn't matter.

2.22.2. ClientAccountDepositResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	OldBalance	Decimal	Client account balance before deposit
4	NewBalance	Decimal	Client account balance after deposit
4	Extra	ExtraInfo []	List of extra fields ²

² Possible extra fields:

- receipt_text - receipt in a form of plain text returned in this ExtraInfo if “get_receipt” has been added in ClientAccountDepositRequest.Extra

2.23. UpdateClients - Create or Update clients in database.

When ID is other than 0, client is updated, else new client created.

2.23.1. UpdateClientsRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	Clients	Client []	+	List of clients to add or update
4	Extra	ExtraInfo []		Extra information

When using this request, fields AccountBalance and SavePoints are not updated. Use [ClientDeposit](#) request for updating AccountBalance.

2.23.2. UpdateClientsResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	AddedClients	Integer	Number of added clients
4	UpdatedClients	Integer	Number of updated clients
5	Extra	ExtraInfo []	Extra information ¹

¹ Extra fields in response:

- result_ids - comma separated IDs of created and/or updated clients. Number of IDs returned is equal to number of Clients sent in request.

2.24. GetClientsEx - Returns the list of clients using additional filters

2.24.1. GetClientsExRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	ModifiedSince	Timestamp		Specify this value to return only clients added/updated since that date/time
4	Extra	ExtraInfo[]		Extra information ¹

¹List of available optional extra fields in request:

- **id** - Search active client by ID (**ModifiedSince** ignored when this extra added)
- **is_active** - specifies which clients to select:
 - 1 - only active (by default)
 - 0 - only inactive
 - -1 - both inactive and active
- **smartcard_uid** - search by smartcard UID (**ModifiedSince** ignored when this extra added)

2.24.2. GetClientsResponse - ref. response for [GetClients](#) method. Clients sorted by number.

2.25. NextCourse - Apply next course to table

If no more courses on table, ReturnCode will be 7, ReturnMessage: "There are no more courses"

2.25.1. NextCourseRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	TableNumber	Integer	+	
4	TablePart	String	+	
5	Extra	ExtraInfo[]		List of extra fields

2.25.2. NextCourseResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes

2	ReturnMessage	String	Error text, ref. App 2: Return Codes
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2.26. SetTableCourse - Apply course to certain table

When course is not changed because given course is already set, no error will be returned.

If it is unable to set given course for this table, ReturnCode will be 7, ReturnMessage: “Unable to change table course to [...]”

2.26.1. SetTableCourseRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	TableNumber	Integer	+	Table to set course to
4	TablePart	String	+	Table part
5	CourseId	Long	+	Course to set for table
6	Extra	ExtraInfo[]		List of extra fields

2.26.2. SetTableCourseResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes

2.27. GetActiveTableInfo - Information about open table

Returns transaction structure and amounts (total, remaining, extra) by table number

2.27.1. GetActiveTableInfoRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	TableNumber	Integer	+	Table to set course to
4	TablePart	String	+	Table part
5	Extra	ExtraInfo[]		List of extra fields

2.27.2. GetActiveTableInfoResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Transaction	TurnoverTransaction	Transaction structure
4	TotalAmount	Decimal	Total amount of transaction
5	RemainingAmount	Decimal	Remaining amount for payments
6	ExtraAmount	Decimal	Extra amount
7	Extra	ExtraInfo[]	Extra information

2.28. FindTransactions - Find transactions in database

Searches and returns transactions by certain conditions specified in “Conditions” field. Conditions is a set of ExtraInfo entities where each condition has key and value.

2.28.1. FindTransactionsRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	Conditions	ExtraInfo[]	+	List of conditions ¹
4	Limit	Integer		0 - all records
5	Desc	Boolean		False - return transactions in the order of creation True - return in reversed order
6	Extra	ExtraInfo[]		List of extra fields

¹ Supported conditions:

Key	Value
transaction_id	Transaction ID
bill_external_id	External ID of a TransactionBill

2.28.2. FindTransactionsResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Transaction	TurnoverTransaction []	List of found transactions
4	Extra	ExtraInfo []	Extra information

2.29. GetServerInfo - Get Server Information

Returns general TPAPI server information

2.29.1. GetServerInfoRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	Extra	ExtraInfo []		List of extra fields

2.29.2. GetServerInfoResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	DateTime	Timestamp	Current server date/time
4	Extra	ExtraInfo []	Extra information

2.30. GetBOStatus - Get Current Backoffice Status

Returns the status including BO database signature. Everytime any backoffice data is updated, this signature is changed.

2.30.1. GetBOStatusRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI

3	Extra	ExtraInfo[]	List of extra fields
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2.30.2. GetBOStatusResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	CurrentSignature	String	Current BO database signature
4	Extra	ExtraInfo[]	Extra information

2.31. Pay - Make payment on table with specified payment type

2.31.1. PayRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	TableNumber	Integer	+	
4	TablePart	String	+	
5	PaymentId	Long	+	ID of payment to use
6	Amount	Decimal		Specify amount of payment, "0" means pay complete amount
7	EFTData			when specified and not empty, means that EFT payment processed externally and shouldn't be handled by unTill. Key=Value pairs separated by LF character: Syntax: "key1=value1\nkey2=value2..."
8	Extra	ExtraInfo[]		List of extra fields ¹

¹Available extra fields for PayRequest:

- external_id - (up to 50 chars) - unique ID may be assigned to the bill made by "CloseOrder"
- get_bill - if added, then unTill does not print the bill and return it in PayResponse.Extra instead, under the key "bill_text"
- bill_layout - Use custom ticket layout. Value is an ID of unTill ticket .
- tip - Add tips (amount specified in cents)
- proforma_signature - specify signature of a proforma to be paid

2.31.2. PayResponse

#	parameter	type	description
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1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Extra	ExtraInfo []	List of extra fields ¹

¹Available extra fields for PayResponse:

- bill_text - Bill returned in a form of plain text where lines separated with CRLF. Only returned when “get_bill” has been added in PayRequest extra info.

2.32. GetDepositsReport - Read List of Cancelled Items

Returns the list of deposits per time period

2.32.1. GetDepositsReportRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	From	Timestamp	+	Report period start
4	Till	Timestamp	+	Report period end
5	SalesAreald	Long	-	Sales Area ID (optional)
6	Extra	ExtraInfo []		List of extra fields

2.32.2. GetDepositsReportResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Items	DepositItem []	List of deposits
4	Extra	ExtraInfo []	List of extra fields

2.33. GetInOutCashReport - Read “In/Out Cash Report”

Returns the list of “in/out” cash entries from database per time period

2.33.1. GetInOutCashReportRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI

3	From	Timestamp	+	Report period start
4	Till	Timestamp	+	Report period end
5	Extra	ExtraInfo[]		List of extra fields

2.33.2. GetInOutCashReportResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Items	InOutCashItem[]	List of in/out cash entries
4	Extra	ExtraInfo[]	List of extra fields

2.34. PrintProforma - Print proforma for a table

Allows to print proforma and optionally return proforma text

2.34.1. PrintProformaRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	TableNumber	Integer	+	Table number
4	TablePart	String	+	Table part
5	Extra	ExtraInfo[]		List of extra fields <ul style="list-style-type: none"> • get_receipt - return receipt as text instead of sending it to printer • layout_id - specify custom layout for printing proforma

2.34.2. PrintProformaResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Extra	ExtraInfo[]	List of extra fields <ul style="list-style-type: none"> • receipt_text - text of proforma, if requested with get_receipt.

2.35. GetCountries - Return list of countries

Returns the list of countries, declared in backoffice

2.35.1. GetCountriesRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	Extra	ExtraInfo[]		List of extra fields ¹

¹Extra Fields:

- id - select country by ID
- is_active - select by activity flag:
 - 0 - only inactive
 - 1 - only active
 - -1 - both active and inactive

2.35.2. GetCountriesResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Countries	Country[]	List of countries
4	Extra	ExtraInfo[]	List of extra fields

2.36. UpdateCountries - Add or update countries

Adds or updates countries in database. When Country.ID = 0, country is added, else updated. It is not allowed to add country when the country with same name is already exists.

2.36.1. UpdateCountriesRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	Countries	Country[]	+	List of countries
4	Extra	ExtraInfo[]		List of extra fields

2.36.2. UpdateCountriesResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	AddedCountries	Integer	Number of added countries
4	UpdatedCountries	Integer	Number of updated countries
5	Extra	ExtraInfo[]	List of extra fields ¹

¹ Extra fields in response:

- result_ids - comma separated IDs of created and/or updated countries. Number of IDs returned is equal to number of Countries sent in request.

2.37. PrintReport - Print report

Allows to print report or return it in response as plain text

2.37.1. PrintReportRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	LayoutId	Long	+	Report layout ID
4	PrinterId	Long	-	Target printer ID. If zero, result is sent in response as plain text
5	From	Timestamp	-	Report period start
6	Till	Timestamp	-	Report period end
7	Arguments	KeyValue[]	-	Report arguments
8	Extra	ExtraInfo[]	-	Extra fields

2.37.2.

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes

3	Extra	ExtraInfo[]	List of extra fields <ul style="list-style-type: none"> receipt_text - text of report, returned when PrinterId=0 in request
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2.38. GetDiscountGroupsInfo - Get discount groups information

Returns list of discount groups with details

2.38.1. GetDiscountGroupsInfoRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	Extra	ExtraInfo[]	-	Extra fields

2.38.2. GetDiscountGroupsInfoResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	DiscountGroups	DiscountGroupInfo[]	List of discount groups
4	Extra	ExtraInfo[]	List of extra fields <ul style="list-style-type: none"> receipt_text - text of report, returned when PrinterId=0 in request

2.39. AddPouring - Add pouring data

Registers pouring in database so the pouring appears in reports and Beverage Control Statistics.

2.39.1. AddPouringRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	Pourings	Pouring[]	+	Array of pourings to register
4	Extra	ExtraInfo[]	-	Extra fields

2.39.2. AddPouringResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Extra	ExtraInfo[]	List of extra fields

2.40. GetCourses - Get list of active courses

2.40.1. GetCoursesRequest

#	parameter	type	required	description
1	UserName	String	+	The name of unTill POS waiter
2	Password	String	+	Password for unTill TPAPI
3	Extra	ExtraInfo[]	-	Extra fields ¹

¹Extra Fields:

- id - select country by ID
- is_active - select by activity flag:
 - 0 - only inactive
 - 1 - only active
 - -1 - both active and inactive

2.40.2. GetCoursesResponse

#	parameter	type	description
1	ReturnCode	Integer	See App 2: Return Codes
2	ReturnMessage	String	Error text, ref. App 2: Return Codes
3	Courses	Course[]	List of courses
4	Extra	ExtraInfo[]	List of extra fields

App 1. Types and Classes

All strings are unicode UTF8 strings. Other classes are listed below:

ArticleInfo

#	parameter	type	description
1	ArticleId	Long	
2	ArticleName	String	Article name
3	ArticleNumber	Integer	Article number
4	Available	Long[]	List of sales area IDs this article is available
5	Prices	ItemPrice []	Prices for this article
6	DepartmentId	Long	Department ID
7	FreeOption	Long	Free option ID (or null)
8	Options	Long[]	“Must have” option IDs
9	IsMenu	Boolean	“true” if this article is a menu
10	IsManualPrice	Boolean	“true” if this article requires manual price input when ordering
11	IsActive	Boolean	Article active
12	Promo	Boolean	Combo/Promo article
13	HqId	String	HQ Id
14	Extra	ExtraInfo []	List of extra fields*

* The following extra fields returned:

- course_id - Course ID
- daily_stock_active - 1/0 (if DailyStock=1 was specified in request's Extra fields)
- daily_stock_qty - Daily stock quantity (if DailyStock=1 was specified in request's Extra fields)
- info - Article info (tab 9 of the article settings in back-office)
- plu - when PLU is not zero
- purchase_price - Purchase price

ArticleDiscountItemInfo

#	parameter	type	description
1	ArticleId	Long	Article id
2	DiscountPercent	Decimal	Discount in percents
3	Extra	ExtraInfo []	List of extra fields

ArticleShort

#	parameter	type	description
1	ArticleId	Long	Article id

2	ArticleName	String	Article name
3	ArticleNumber	Integer	Article number
4	SalesAreaId	Long	Sales-area id where this article is available
5	DepartmentId	Long	ID of department
6	HqId	String	HQ Id
7	Extra	ExtraInfo[]	List of extra fields

CancelledItem

#	parameter	type	description
1	ArticleId	Long	Article ID
2	DateTime	Timestamp	Date/time of ordering
3	UserId	Long	Waier ID
4	TableNo	Integer	Table Number
5	TablePart	String	Table Part
6	Quantity	Integer	Quantity of ordered articles
7	Price	Decimal	Single Item Price
8	PriceId	Long	Price ID
9	Extra	ExtraInfo[]	List of extra fields

CategoryInfo

#	parameter	type	description
1	CategoryId	Long	Category ID
2	CategoryName	String	Category name
3	HqId	String	HQ Id
4	Extra	ExtraInfo[]	List of extra items

Client

#	parameter	type	description
1	Id	Long	Client ID
2	Number	Integer	Client Number
3	Name	String	

4	Country ²	String	Country name (ID of country is sent in Extras)
5	Phone	String	
6	Fax	String	
7	Email	String	
8	Website	String	
9	Address	String	
10	Info	String	
11	BirthDate	Timestamp	
12	CardNumber	String	Base64-encoded
13	Code	String	
14	OnInvoice ¹	Boolean	
15	PriceActive	Boolean	
16	Price	Long	
17	PromotionPrice	Long	
18	AccountBalance ¹	Decimal	
19	AccountLimit ¹	Decimal	
20	IsSharedAccount	Boolean	True if client belongs to a shared account
21	SharedAccount	String	Shared Account Name
22	SavePoints	Integer	
23	SaveAmount ¹	Integer	
24	Extra	ExtraInfo []	List of extra fields ³

¹ For clients who belongs to Shared Accounts, these fields display values from Shared Accounts

² Methods GetClients and GetClientsEx returns both Country (name) and country_id in Extras. When updating clients with UpdateClients:

- if country_id specified in Extras:
 - country_id=0 means no country
 - Client.Country ignored
- if country_id not specified in extras:
 - Empty value for Client.Country means no country
 - If no country exists in database with name=Client.Country, error returned

³ Extra Fields:

Key	Description	Range	Read	Write
-----	-------------	-------	------	-------

is_active	Activity flag	1 / 0	always	optional, default=1
country_id	ID of Country	Long	always	optional ²
last_update	When client was updated for the last time	Date/Time	always	-
smartcard_uid	Smartcard UID	String (Hex)	If not null	optional

Country

#	parameter	type	description
1	CountryId	Long	Country id
2	CountryName	String	Country name
3	Kind	Integer	One of the following: <ul style="list-style-type: none"> • 0 - Home Country • 1 - Member EC • 2 - Other
4	Extra	ExtraInfo []	List of extra fields ¹

¹ Extra Fields:

Key	Description	Range	Read	Write
is_active	Activity flag	1 / 0	always	optional, default=1

Course

#	parameter	type	description
1	Id	Long	Course id
2	Name	String	Course name
3	Number	Integer	Course number
4	Separate	Boolean	Course is separate
5	Changeable	Boolean	Course is changeable
6	AutoFire	Boolean	Course is aut-fire
7	Extra	ExtraInfo []	List of extra fields ¹

¹ Extra Fields:

Key	Description	Range	Read	Write
-----	-------------	-------	------	-------

is_active	Activity flag	1 / 0	always	n/a
-----------	---------------	-------	--------	-----

Credential

#	parameter	type	description
1	CredentialGuid	String	GUID
2	CredentialName	String	Name

DepartmentInfo

#	parameter	type	description
1	DepartmentId	Long	Department id
2	DepartmentName	String	Department name
3	DepartmentNumber	Integer	Department number
4	Available[]	Long[]	Sales-areas where this department is available
5	Supplement	Long	Supplement Option ID
6	Condiment	Long	Condiment Option ID
7	GroupId	Long	Group ID
8	SpecialArticles	Long[]	List of "special" articles included into department
9	HqId	String	HQ Id
10	Extra	ExtraInfo []	List of extra fields

DepositItem

#	parameter	type	description
1	Id	Long	Deposit ID
2	DateTime	Timestamp	Deposit date/tme
3	ComputerName	String	Computer Name
4	DepositNumber	String	Deposit Number
5	UserId	Long	Waiter ID
6	SalesAreaId	Long	Sales Area ID
7	ClientId	Long	Client ID

8	PaymentId	Long	Payment ID
9	Amount	Decimal	Deposit Amount
10	Comments	String	Deposit comments
11	Extra	ExtraInfo[]	List of extra fields

DiscountGroupInfo

#	parameter	type	description
1	Id	Long	Discount Group ID
2	Name	String	Discount Group name
3	Barcode	String	Barcode
4	CheapestArticleDiscountedOnly	Boolean	True if cheapest article discounted only
5	Articles	ArticleDiscountItemInfo[]	List of items
6	Extra	ExtraInfo[]	List of extra items

ExtraInfo

#	parameter	type	description
1	Key	String	Extra Info Item Key
2	Value	String	Extra Info Item Value
3	Extra	ExtraInfo[]	List of extra items

GroupInfo

#	parameter	type	description
1	GroupId	Long	Group ID
2	GroupName	String	Group name
3	CategoryId	Long	Category ID
4	HqId	String	HQ Id
5	Extra	ExtraInfo[]	List of extra items

HourlyWageItem

#	parameter	type	description
---	-----------	------	-------------

1	Position	String	Waiter Position
2	HourlyWage	Decimal	
3	HourlyWageOvertime	Decimal	

InOutCashItem

#	parameter	type	description
1	Id	Long	Item ID
2	DateTime	Timestamp	In/out cash date/tme
3	ComputerName	String	Computer Name
4	UserId	Long	Waiter ID
5	Amount	Decimal	Amount. Positive for “In” cash and negative for “Out” cash items
6	Reason	String	Reason
7	Supplier	String	Supplier
8	Extra	ExtraInfo[]	List of extra fields

ItemPrice

#	parameter	type	description
1	ArticleId	Long	Article id
2	PriceId	Long	Price id
3	Amount	Decimal	Price amount
4	Vat	Decimal	VAT percent
5	Extra	ExtraInfo[]	List of extra fields

KeyValue

#	parameter	type	description
1	Key	String	Item Key
2	Value	String	Item Value

Language

#	parameter	type	description
1	LangCode	String	Language Code
2	Language	String	Language Name

OptionInfo

#	parameter	type	description
1	OptionId	Long	Option id
2	OptionName	String	Option name
3	Available	Long[]	List of sales-areas where this option is available
4	Items	ItemPrice[]	List of option items with their prices
5	Extra	ExtraInfo[]	List of extra fields

OrderInfo

#	parameter	type	description
1	TableNumber	Integer	Table number
2	TablePart	WideString	Table part
3	OrderName	String	Order name
4	ClientName	String	Client name
5	OrderDescr	String	Order description
6	SalesAreaId	Long	Sales-area ID
7	Extra	ExtraInfo[]	List of extra fields

OrderItem

#	parameter	type	description
1	ItemNumber	Integer	Order item sequential number
2	ArticleId	Long	Article id (Zero for OrderItemType=6)
3	OrderItemType	Integer	Order item type, ref. App3: Constants
4	Text	String	Text for order_item_type=6
5	ManualPrice	Decimal	Specifies price for articles with IsManualPrice=true
6	Quantity	Integer	Quantity of ordered items. Valid only for OrderItemType=0 and

			5
7	Extra	ExtraInfo[]	List of extra fields <ul style="list-style-type: none"> • “last” - add this extra when item is the last “must-have” option item in a group¹

¹ Example:

1. “Article A” (normal article)
2. “Article B” (must-have option) for “Composed must-have option X”
3. “Article C” (must-have option) for “Composed must-have option X”
4. “Article D” (must-have option) for “Composed must-have option X” - extra “last” added
5. “Article E” (must-have option) for “Composed must-have option Y”
6. “Article F” (must-have option) for “Composed must-have option Y”

Note that “last” needs to be added only when next item is also a must-have option. In other cases, it may be skipped.

PriceInfo

#	parameter	type	description
1	PriceId	Long	Price id
2	PriceName	String	Price name
3	HqId	String	HQ Id
4	Extra	ExtraInfo[]	List of extra fields

PaymentInfo

#	parameter	type	description
1	PaymentId	Long	Payment id
2	PaymentNumber	Integer	Payment number
3	PaymentName	String	Payment name
4	PaymentKind	Integer	Payment kind, ref. App3: Constants
5	Extra	ExtraInfo[]	List of extra fields

Pouring

#	parameter	type	description
1	PLU	Integer	PLU of the article
2	Quantity	Integer	Quantity
3	TableNumber	Integer	Table for which pouring has been made (optional)

4	DateTime	Timestamp	Timestamp of pouring
5	WaiterID	Integer	Waiter Number (Users / Beverage Control / Waiter ID)
6	ExternalID	Long	Optional. An ID of pouring in 3rd party system
7	ExternalUID	String [max. 50]	Optional. A unique UID of pouring in 3rd party system. When non-empty, unTill only inserts pouring if no pouring with the same External UID already exists in database.
7	ClientCard	String	Client Card
8	LCU	Integer	Logical Control Unit Number which identifies device (Optional)
9	Extra	ExtraInfo[]	List of extra fields

SalesAreaInfo

#	parameter	type	description
1	SalesAreaId	Long	Sales-area ID
2	SalesAreaName	String	Sales-area name
3	SalesAreaNumber	Integer	Sales-area number
4	PriceId	Long	Price for this sales-area
5	Tables	TableRange[]	List of table ranges for this sales area
6	Extra	ExtraInfo[]	List of extra fields

TableRange

#	parameter	type	description
1	FromTable	Integer	Table range start
2	ToTable	Integer	Table range end
3	Extra	ExtraInfo[]	List of extra fields

TimeAttendanceRecord

#	parameter	type	description
1	UserId	Long	User ID
2	Start	Timestamp	Record start. "1899-12-30" means null date

3	Stop	Timestamp	Record end. "1899-12-30" means null date
4	TotalTime	String	Record duration, Format: "HH:MM"
5	TotalDecimal	Decimal	Record duration, in decimal
6	TotalCosts	Decimal	Total Costs
7	Extra	ExtraInfo[]	List of extra fields

TurnoverBill

#	parameter	type	description
1	OpenDateTime	Timestamp	Transaction open date/tme
2	CloseDateTime	Timestamp	Transaction close date/time
3	ComputerName	String	Computer Name
4	BillNumber	Integer	Transaction Number
5	BillSuffix	String	Transaction Suffix
6	TableNumber	Integer	Table Number
7	Table Part	String	Table Part
8	Covers	Integer	Number of Covers
9	UserId	Long	Waier ID
10	SalesAreald	Long	Sales Area ID
11	Items	TurnoverBillItem[]	List of included items
12	Extra	ExtraInfo[]	List of extra fields

TurnoverBillItem

#	parameter	type	description
1	ArticleId	Long	Article ID
2	DateTime	Timestamp	Date/time of ordering
3	ItemNumber	Integer	Number in order
4	ComputerName	String	Computer name
5	Quantity	Integer	Quantity of ordered articles
6	Price	Decimal	Price
10	UserId	Long	Waier ID
11	HqId	String	HQ ID

12	Extra	ExtraInfo[]	List of extra fields
----	-------	-----------------------------	----------------------

TurnoverTransaction

#	parameter	type	description
1	Id	Long	Transaction ID
2	OpenDateTime	Timestamp	Transaction open date/tme
3	CloseDateTime	Timestamp	Transaction close date/time
4	TranNumber	String	Transaction Number
5	TableNumber	Integer	Table Number
6	Table Part	String	Table Part
7	Covers	Integer	Number of Covers
8	UserId	Long	Waiter ID
9	DiscountOnTotal	Decimal	Discount amount on transaction total
10	ServiceCharge	Decimal	In Percents
11	ClientName	String	Name of client
12	ClientId	Long	ID of client
13	Orders	TransactionOrder[]	List of orders for this transaction
14	Bills	TransactionBill[]	List of bills for this transaction
15	Proformas	TransactionProforma[]	List of proformas
16	BillReprints	TransactionBillReprint[]	List of bill re-prints
17	Extra	ExtraInfo[]	List of extra fields: <ul style="list-style-type: none"> • service_tax - percent value of Service Tax applied to the transaction • service_charge_amount - only when service charge is applied • course_id - course ID • extra taxes (optionally) • discount_reason (optionally) • modified (optionally, YYYYMMDD-HHMMSS)

TransactionBillReprint

#	parameter	type	description
1	Id	Long	Order ID
2	DateTime	Timestamp	Order date/tme

3	Extra	ExtraInfo[]	List of extra fields
---	-------	-----------------------------	----------------------

TransactionProforma

#	parameter	type	description
1	Id	Long	Order ID
2	DateTime	Timestamp	Order date/tme
3	UserId	Long	Waiter ID
4	Extra	ExtraInfo[]	List of extra fields

TransactionOrder

#	parameter	type	description
1	Id	Long	Order ID
2	DateTime	Timestamp	Order date/tme
3	ComputerName	String	Computer Name
4	OrderNumber	String	Order Number
5	UserId	Long	Waiter ID
6	SalesAreaId	Long	Sales Area ID
7	Items	TransactionOrderItem[]	List of order items
8	Extra	ExtraInfo[]	List of extra fields

TransactionOrderItem

#	parameter	type	description
1	Id	Long	Order item ID
2	ArticleId	Long	Article ID
3	ItemNumber	Integer	Number in order
4	Kind	Integer	1 - Article 2 - Option 3 - Message text
5	Quantity	Integer	Quantity of ordered articles

6	SinglePrice	Decimal	Single Price
7	Price	Decimal	Price
8	Discount	Decimal	Discount amount
9	Vat	Decimal	VAT value
10	VatPercent	Decimal	VAT percent
11	Text	String	Text (in case when Id=0)
12	HqId	String	HQ Id
13	Extra	ExtraInfo []	List of extra fields: <ul style="list-style-type: none"> • extra taxes (optionally) • void - when item is a result of "Void" operation (for OnlyPaid=0 mode only)

TransactionBill

#	parameter	type	description
1	Id	Long	Bill ID
2	DateTime	Timestamp	Bill date/tme (first time paid)
3	RealDateTime	Timestamp	Real bill date/time
4	ComputerName	String	Computer Name
5	BillNumber	String	Bill Number
6	UserId	Long	Waiter ID
7	ClientName	String	Client for this bill
8	ClientId	Long	Client ID
9	SalesAreaId	Long	Sales Area ID
10	Tip	Currency	Tip amount
11	Payments	TransactionBillPayment []	Payments used in this bill
12	Extra	ExtraInfo []	List of extra fields ¹

¹Available extra fields:

- external_id - external ID of a bill, may be assigned in [CloseOrder](#) request

TransactionBillPayment

#	parameter	type	description
1	Id	Long	Bill payment ID

2	PaymentId	Long	Payment ID
3	Amount	Decimal	Payment amount
4	Extra	ExtraInfo[]	List of extra fields

UserGroup

#	parameter	type	description
1	GroupId	Long	Group ID
2	GroupName	String	Group name

UserInfo

#	parameter	type	description
1	UserId	Long	User ID
2	UserName	String	User name
3	FirstName	String	First name
4	LastName	String	Last name
5	Group	UserGroup	Group Id
6	Credentials	Credential[]	List of assigned credentials
7	Language	Language	User language
8	Void	Boolean	User Void
9	ClockIn	Boolean	User Clock In
10	TagReaderCode	String	Tag Reader Code, Base64 encoded
11	OperatorId	String	Value passed to EFT
12	Address	String	
13	Country	String	
14	Phone	String	
15	Birthdate	Timestamp	
16	Insurance	String	
17	HourlyWage	Decimal	(deprecated) since v1.4 / unTill b92
18	HourlyWages	HourlyWageItem[]	List of hourly wages for this waiter (since v1.4 / unTill b92)

19	Extra	ExtraInfo[]	List of extra fields
----	-------	-----------------------------	----------------------

App 2. Return codes

Each function returns result code and result message. When function completes with no errors, result code is “0” and result message is “ok”. For result codes different than 0, result message will contain the text of error.

Result code	Description	Result Message
0	Operation completed with no errors	ok
1	Internal server error	Exception class, message, stacktrace
2	Authentication error	
3	Illegal request argument (f.e. incorrect SalesAreald)	Details
4	Database unavailable	Details
5	TP-API disabled	Details
6	TP-API not allowed	TP-API not allowed by unTill license
7	Request can not be processed	Reason

App 3. Constants

Order item types:

Option type	Description
0	Normal article (either regular or menu)
1	Must have option
2	Free option
3	Supplement
4	Condiment
5	Menu item
6	Article message

Payment kinds:

Option type	Description
0	Cash
1	Card
2	On-Account / On-Invoice
3	Room (HotelConcepts)
4	Cheque
5	Hash
6	Service Charge
7	Discount
8	SmartCard

List of fields for “[EftFields](#)” extra

- masked_pan
- expire
- auth_number
- controlno
- cardname
- acquier_code
- terminalid
- aid
- tvr
- tsi

- account_type
- merchant_id
- chargetype
- field1
- field2
- field3
- field4
- field5
- field6
- field7
- field8
- field9
- field10
- field11
- field12
- field13
- field14
- field15

App 4. SOAP Examples

Order article with free option:

```
<soapenv:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:urn="urn:TPAPIPosIntfU-ITPAPIPOS"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:CreateOrder soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
      <Request xsi:type="urn:TCreateOrderRequest" xmlns:urn="urn:TPAPIPosIntfU">
        <Password xsi:type="xsd:string">123</Password>
        <UserName xsi:type="xsd:string">Ivan</UserName>
        <TableNumber xsi:type="xsd:int">222</TableNumber>
        <TablePart xsi:type="xsd:string">a</TablePart>
        <ClientName xsi:type="xsd:string"></ClientName>
        <OrderName xsi:type="xsd:string"></OrderName>
        <OrderDescr xsi:type="xsd:string"></OrderDescr>
        <Items xsi:type="urn:TOrderItemArray" soapenc:arrayType="urn:TOrderItem[2]">
          <item xsi:type="urn:TOrderItem">
            <ItemNumber xsi:type="xsd:int">1</ItemNumber>
            <ArticleId xsi:type="xsd:long">25000073936</ArticleId>
            <OrderItemType xsi:type="xsd:int">0</OrderItemType>
            <Text xsi:type="xsd:string"></Text>
            <ManualPrice xsi:type="xsd:double">0</ManualPrice>
            <Quantity xsi:type="xsd:int">1</Quantity>
          </item>
          <item xsi:type="urn:TOrderItem">
            <ItemNumber xsi:type="xsd:int">2</ItemNumber>
            <ArticleId xsi:type="xsd:long">5000000370</ArticleId>
            <OrderItemType xsi:type="xsd:int">2</OrderItemType>
            <Text xsi:type="xsd:string"></Text>
            <ManualPrice xsi:type="xsd:double">0</ManualPrice>
            <Quantity xsi:type="xsd:int">1</Quantity>
          </item>
        </Items>
      </Request>
    </urn:CreateOrder>
  </soapenv:Body>
</soapenv:Envelope>
```

Order Menu:

```

<soapenv:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:urn="urn:TPAPIPosIntfU-ITPAPIPOS"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:CreateOrder soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
      <Request xsi:type="urn:TCreateOrderRequest" xmlns:urn="urn:TPAPIPosIntfU">
        <Password xsi:type="xsd:string">123</Password>
        <UserName xsi:type="xsd:string">Ivan</UserName>
        <TableNumber xsi:type="xsd:int">222</TableNumber>
        <TablePart xsi:type="xsd:string">a</TablePart>
        <ClientName xsi:type="xsd:string"></ClientName>
        <OrderName xsi:type="xsd:string"></OrderName>
        <OrderDescr xsi:type="xsd:string"></OrderDescr>
        <Items xsi:type="urn:TOrderItemArray" soapenc:arrayType="urn:TOrderItem[4]">
          <item xsi:type="urn:TOrderItem">
            <ItemNumber xsi:type="xsd:int">1</ItemNumber>
            <ArticleId xsi:type="xsd:long">15000037955</ArticleId>
            <OrderItemType xsi:type="xsd:int">0</OrderItemType>
            <Text xsi:type="xsd:string"></Text>
            <ManualPrice xsi:type="xsd:double">0</ManualPrice>
            <Quantity xsi:type="xsd:int">2</Quantity>
          </item>
          <item xsi:type="urn:TOrderItem">
            <ItemNumber xsi:type="xsd:int">2</ItemNumber>
            <ArticleId xsi:type="xsd:long">5000000224</ArticleId>
            <OrderItemType xsi:type="xsd:int">5</OrderItemType>
            <Text xsi:type="xsd:string"></Text>
            <ManualPrice xsi:type="xsd:double">0</ManualPrice>
            <Quantity xsi:type="xsd:int">2</Quantity>
          </item>
          <item xsi:type="urn:TOrderItem">
            <ItemNumber xsi:type="xsd:int">3</ItemNumber>
            <ArticleId xsi:type="xsd:long">5000000428</ArticleId>
            <OrderItemType xsi:type="xsd:int">5</OrderItemType>
            <Text xsi:type="xsd:string"></Text>
            <ManualPrice xsi:type="xsd:double">0</ManualPrice>
            <Quantity xsi:type="xsd:int">2</Quantity>
          </item>
          <item xsi:type="urn:TOrderItem">
            <ItemNumber xsi:type="xsd:int">4</ItemNumber>
            <ArticleId xsi:type="xsd:long">5000000442</ArticleId>
            <OrderItemType xsi:type="xsd:int">5</OrderItemType>
            <Text xsi:type="xsd:string"></Text>
            <ManualPrice xsi:type="xsd:double">0</ManualPrice>
            <Quantity xsi:type="xsd:int">2</Quantity>
          </item>
        </Items>
      </Request>
    </urn:CreateOrder>
  </soapenv:Body>
</soapenv:Envelope>

```

Get Turnover Report:

```

<soapenv:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:urn="urn:TPAPIPosIntfU-ITPAPIPOS">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:GetTurnoverReport soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
      <Request xsi:type="urn:TGetTurnoverReportRequest" xmlns:urn="urn:TPAPIPosIntfU">

```



```
<Password xsi:type="xsd:string">123</Password>
<UserName xsi:type="xsd:string">Ivan</UserName>
<UserId xsi:type="xsd:long">0</UserId>
<SalesAreaId xsi:type="xsd:long">0</SalesAreaId>
<From xsi:type="xsd:dateTime">2011-10-18T16:50:00.000+04:00</From>
<Till xsi:type="xsd:dateTime">2011-10-18T12:59:00.000Z</Till>
</Request>
</urn:GetTurnoverReport>
</soapenv:Body>
</soapenv:Envelope>
```