



Infor LN Public Interfaces & Process Extensions Reference Guide (On-premises)

Release 10.6

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About this guide

Intended audience

This guide is intended for IT professionals working in implementation projects or IT optimization phases for Infor LN. Basic knowledge about the Infor LN software structure and Infor LN's 4GL programming language is a pre-requisite.

Related documents

You can find these documents on docs.infor.com:

- *Infor LN Studio Application Development Guide*
- *Infor LN Studio Integration Development Guide*
- *Infor LN Extensions Development Guide*

You can find the *Infor ES Programmer's Guide* in [KB2924522](#). The content of this guide is also available in the help pages of Infor LN Studio.

Contacting Infor

If you have questions about Infor products, go to Infor Concierge at https://mingle-portal.us2.prd3.inforcloudsuite.com/v2/CONCIERGE_PRD and create a support incident.

For the latest documentation, go to Documentation Central at docs.infor.com. We recommend that you check this website periodically for updated documentation. If you have comments about Infor documentation, contact documentation@infor.com.

Chapter 1 Introduction

Infor LN is a standard ERP application with rich functionality. With its built-in flexibility with parameters, workflows, dynamic processes, it can be adjusted to serve the business processes in the industries Infor LN is designed for. To close the small gaps between the standard functionality and the specific business needs, Infor LN offers a variety of extensibility possibilities. The main goal of extensibility is to develop the last-mile functionality for your organization without changing the core standard software components and using only the public interfaces of the standard application. In this way, you can develop the extensions fully separated from the standard components and upgrading the standard software will therefore not result in additional efforts and costs for upgrading the customizations. Extensions are not influenced by the upgrade process.

Public Interfaces

Public Interfaces are methods with LN application functionality that can be called from extensions.

Public Interfaces explained

The development of extensions can be made easier if methods from the LN Application can be used. This can be done by using the so-called LN Public Interfaces. LN Public Interfaces are functions in the LN Application that are available for anyone who develops extensions on LN. The available LN Public Interfaces are visible in LN Studio and in the Extension Modeler. LN Public Interfaces are generic functions with a certain level of complexity that will likely be used by multiple customers. Simple read actions, for example, needs to be developed by customers or implementation partners themselves. Moreover, LN Public Interfaces will perform something what cannot easily be achieved with one or more standard sessions or processes in LN.

How to request a new Public Interface

Apply the following process if you need a new LN Public Interface:

- 1 Evaluate if the new LN Public Interface is generic and contains a certain level of complexity. Make sure the required feature cannot be achieved with personalizing a standard session or process.

- 2 Create an incident and clearly describe the required LN Public Interface. Use the Excel Sheet "Request Template for LN Public Interfaces & Process Extensions)" which is attached to [KB2003722](#) in the Infor Customer Portal.
- 3 Infor Support will create a defect for this incident.
- 4 Infor Development will review the requested LN Public Interface and will either develop the new LN Public Interface or reject the request. If the LN Public Interface is developed it will be released via the regular delivery process.
- 5 After the new solution has been installed the customer can use the new LN Public Interface in the extension modeler and/or in LN Studio.
- 6 Infor Support will complete the incident.

Public Interface example

Find below an example of one of the LN Public Interfaces. This Public Interface converts an amount to another currency.

```
long Common.ConvertAmount(  
    domain    tcncmp    iFinancialCompany,  
    domain    tcamnt    iSourceAmount,  
    domain    tcccur    iSourceCurrency,  
    domain    tcrtyp    iExchangeRateType,  
    domain    tcdate    iRateDateUTC,  
    domain    tcccur    iTargetCurrency,  
    ref       domain    tcamnt    oTargetAmount,  
    ref       domain    tcmcs.s999m    oExceptionMessage mb,  
    ref       long      oExceptionID)
```

It is very important to use LN Public Interfaces properly and to catch the errors. For this reason, each Public Interface has the output arguments 'oExceptionMessage' and 'oExceptionID'.

If the Public Interface returns a value unequal to zero, then argument oExceptionMessage is filled for sure with the latest exception message and argument oExceptionID is a reference to an XML-object that contains some more information about the exception. This extra information can be retrieved by using the Public Interface 'Exception' in otcextxtapi. It is also important to free up memory by calling Public Interface Exception.Delete(...).

If the Public Interface returns zero, arguments oExceptionMessage and oExceptionID could be filled due to information messages. So, in fact only the return value indicates if a public interface is successful or not.

The next example shows how to implement error handling when using LN Public Interfaces, in this case Common.ConvertAmount to convert an amount to another currency.

```
#pragma used dll "otcextapi"
#pragma used dll "otcextemapi"

        long          exception.id, i
domain    tcmcs.s999m  exception.message

if Common.ConvertAmount(..., exception.message, exception.id) <> 0 then
    |* Exception(s) found.
    for i = 1 to Exception.NumberOfMessages(exception.id)
        dal.set.error.message("@"& Exception.GetMessage(i))
    endfor
    Exception.Delete(exception.id)
    return (DALHOOKERROR)
else
    |* Call was successful. Exception messages could exist!
    Exception.Delete(exception.id)
endif
```

To be able to use the Public Interface in your extensions, you need to add a “#pragma used dll” statement for the DLL that contains the Public Interface. The DLL names can be found in the documentation of the available Public Interfaces. Note that the DLL name needs to be preceded by an “o” in the #pragma-statement.

Available Public Interfaces

The next chapters of this document describe the available Public Interfaces for Infor LN (10.6) and what their usage is.

If the Public Interfaces described in this document are not shown in the Extension Modeler or Infor LN Studio in your environment, it may be necessary to apply a Knowledge Base article (KB) that can be found in the Infor Customer Portal. The applicable KB number is mentioned in the Public Interface description.

Public Interface to call BDE methods

BDEs (Business Data Entities) are components in Infor LN that are the base for Infor LN's web services. A special Public Interface is available to call the BDE methods within extensions: BDE.ExecuteMethod. Note that this will not be a real (SOAP) web service call, but the BDE method will be executed internally in LN.

The available BDEs are shown in session “Business Objects” (ttadv7500m000). The BDEs that are available to be called as Public Interface must satisfy the following conditions:

- The name must not end with “BOD”
- The Type of Business Object must be ‘Public’

- The Maintained in Studio checkbox must be checked
- The action Download WSDL must be available for the BDE.

Proxy DLL

BDE methods are functions that have an XML document as input (the request), and the output is either a response XML document (in case the method succeeded) or a result XML document (in case the method failed). To build the request or to retrieve data from the response or result, you need to use a Proxy DLL that is generated based on the WSDL (Web Service Description Language). To be able to generate a proxy DLL you need to have a Development license (product ID 10146).

Perform the following steps to generate a Proxy DLL:

- 1 Select the BDE you want to call in your extension in session “Business Objects” (ttadv7500m000).
- 2 Click **Actions>Download WSDL**.
- 3 Save the WSDL in a folder on your PC.
- 4 Start Infor LN Studio. At least version 10.7.0.389 is needed. For more information about Infor LN Studio see the Related Documents section of this document.
- 5 If you don’t have an Activity yet, create a new one.
- 6 Create a new software component of type Library. Enter a name and a description and click **Finish**.
- 7 A new library is created, and the editor is opened for it. Check out the library.
- 8 Right-click in the editor and select **Generate Source from WSDL**.
- 9 The “Generate Library from WSDL file” displays. Browse to the WSDL file you saved on your PC in step 3.
- 10 Click **OK**.
- 11 The source is generated. Click **Save** button.
- 12 If you need to use the proxy DLL in another LN Studio Activity or another Extensibility Activity, the proxy DLL must be committed by (partially) ending the current Activity.

Coding example

This program creates and releases a Service Order using the Create and ReleaseOrder methods of the ServiceOrder_v4 BDE. The numbers behind |# refer to remarks after the example program.

```
#pragma used dll "otcextextapi" |# 1
#pragma used dll "otcextbdeapi" |# 2

function create.and.release.service.order()
{
```

```

long    request, response, result
long    so.order, so.act, so.ass
long    ro
long    da
long    ret
long    exceptionid
string  exceptionmessage(1000) mb

domain  tcorno  service.order

db.retry.point()                                     |# 3

request = Create_CreateRequest.New()                 |# 4

so.order = Create_ServiceOrder_v4.New("JJD")          |# 5
Create_ServiceOrder_v4.SetserviceCenter(so.order, "100") |# 6

da = Create_DataArea.New()                           |# 7
ret = Create_DataArea.AddServiceOrder_v4(da, so.order)
Create_CreateRequest.SetDataArea(request, da)

so.act = Create_ServiceOrderActivity.New()            |# 8
ret = Create_ServiceOrder_v4.AddServiceOrderActivity(so.order, so.act) |# 9
|# 6
Create_ServiceOrderActivity.SetserviceOrderActivityPlannedStartTime(so.act, utc.num())
Create_ServiceOrderActivity.SetserviceOrderActivityPlannedFinishTime(
    so.act, utc.num() + 3600)

so.ass = Create_ActivityEngineer.New()                |# 10
ret = Create_ServiceOrderActivity.AddActivityEngineer(so.act, so.ass) |# 11
Create_ActivityEngineer.SetassignmentEngineer(so.ass, "0099101") |# 6

ret = BDE.ExecuteMethod("ServiceOrder_v4",           |# 12
    "Create",
    request,
    response,
    result,
    exceptionmessage,
    exceptionid)

if ret <> 0 then                                     |# 13
    abort.transaction()
    message(exceptionmessage)
    Exception.Delete(exceptionid)
    return
endif

ret = Create_CreateResponse.GetDataArea(response, da) |# 14

```

```
so.order = Create_DataArea.GetServiceOrder_v4(da)
service.order = Create_ServiceOrder_v4.GetServiceOrderCode(so.order)

xmlDelete(request)
xmlDelete(response)

request = ReleaseOrder_ReleaseOrderRequest.New()                                     |# 15

ro = ReleaseOrder_ServiceOrder_v4.New(service.order)

da = ReleaseOrder_DataArea.New()
ret = ReleaseOrder_DataArea.AddServiceOrder_v4(da, ro)
ReleaseOrder_ReleaseOrderRequest.SetDataArea(request, da)

ret = BDE.ExecuteMethod("ServiceOrder_v4",                                         |# 16
                        "ReleaseOrder",
                        request,
                        response,
                        result,
                        exceptionmessage,
                        exceptionid)

if ret <> 0 then                                                                    |# 13
    abort.transaction()
    message(exceptionmessage)
    Exception.Delete(exceptionid)
    return
endif

Exception.Delete(exceptionid)                                                       |# 17

commit.transaction()                                                                |# 18
message(sprintf$("Service Order %s has been created and released.", service.order))
}
```

Explanation:

- 1 ottextapi contains the functions for exception handling.
- 2 ottextbdeapi contains the function BDE.ExecuteMethod().
- 3 Transaction handling must always be in the calling program of the BDE method. Note that when you execute a BDE method in an extension hook (for example in the Before Save hook in a table extension, your hook must not start an own transaction, because it needs to be executed in the transaction of the program that calls the table extension.
- 4 This is the initialization of a new request that must be built up. Use always the functions from the proxy DLL with the method name followed by an “_” as prefix.
- 5 The example creates a Service Order. The root component is the Service Order itself and the component name is the same as the BDE name, ServiceOrder_v4 in this case. Because the

Service Order number is a mandatory attribute of the Service Order, it must be passed as an argument. In this case the series in which the Service Order must be created.

- 6 Other attributes of the Service Order can be set as well. This also applies to the attributes of other components of the Service Order (Activity and Assignment Engineer) which are added later.
- 7 The Service Order is not directly connected to the request, but within the DataArea of the request. Here the DataArea is created, the Service Order is linked to it and the DataArea is connected to the request.
- 8 An Activity is created and
- 9 linked to the Service Order.
- 10 An Assignment Engineer is created and
- 11 linked to the Activity.
- 12 This is the call of the Public Interface to execute the BDE method to create the Service Order including the Activity and the Assignment Engineer. The XML request that has been built up by calling the functions is the proxy DLL looks like:

```
<Create.CreateRequest>
  <DataArea>
    <ServiceOrder_v4>
      <serviceOrderCode>JJD</serviceOrderCode>
      <serviceCenter>100</serviceCenter>
      <ServiceOrderActivity>
        <serviceOrderActivityPlannedStartTime>2019-05-03T07:22:35+02:00
        </serviceOrderActivityPlannedStartTime>
        <serviceOrderActivityPlannedFinishTime>2019-05-03T08:22:35+02:00
        </serviceOrderActivityPlannedFinishTime>
        <ActivityEngineer>
          <assignmentEngineer>0099101</assignmentEngineer>
        </ActivityEngineer>
      </ServiceOrderActivity>
    </ServiceOrder_v4>
  </DataArea>
</Create.CreateRequest>
```

- 13 If the method fails, the transaction must be aborted. When the transaction is started outside your code (for example when your code is part of a table extension), you don't need to abort, but return the error (DALHOOKERROR). The *exceptionmessage* field contains the most important message from the BDE method call. If you need more messages, you can use the Exception object (see public Interfaces for Extensibility) to retrieve the other messages.
- 14 Retrieve the generated Service Order Number from the response by getting the DataArea of the response XML document, getting the Service Order from the DataArea and then getting the Service Order Number attribute of the Service Order. The XML response of the Create method looks like (the actual response contains much more elements, but they are left out for readability):

```
<CreateResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <DataArea>
    <ServiceOrder_v4>
      <serviceOrderCode>JJD000235</serviceOrderCode>
      <customerOrderReference></customerOrderReference>
      ...
    <ServiceOrderActivity>
      <serviceOrderActivityLineNumber>10</serviceOrderActivityLineNumber>
      <activityStatus>free</activityStatus>
      <serviceOrderActivityPlannedStartTime>2019-05-03T05:22:35Z
      </serviceOrderActivityPlannedStartTime>
      <serviceOrderActivityPlannedFinishTime>2019-05-03T06:22:35Z
      </serviceOrderActivityPlannedFinishTime>

      ...
    <ActivityEngineer>
      <assignmentLineNumber>1</assignmentLineNumber>
      <assignmentStatus>assigned</assignmentStatus>
      <assignmentEngineer>0099101</assignmentEngineer>
      ...
    </ActivityEngineer>
  </ServiceOrderActivity>
</ServiceOrder_v4>
</DataArea>
</CreateResponse>
```

- 15 Use this Service Order Number to build up the ReleaseOrder request.
- 16 Execute the ReleaseOrder method. If this method fails, the transaction needs to be aborted. In this case the created Service Order will be reverted as well.
- 17 Free the Exception object, which may contain information messages.
- 18 Commit the transaction. See also note 3 and 11.

Process Extensions

Process Extensions are the opposite of Public Interfaces. Instead of calling standard LN methods (Public Interfaces) from the extensions, the standard LN application calls the Process Extensions, provided that they are implemented.

Process Extensions explained

With the extension types table extension, session extension, etc. the behavior and functionality of Infor LN can be changed in many ways (see the Infor LN Extensions Development Guide). But there

may be additional requirements where intervening the standard functionality is required, which cannot be achieved with extending the table, session or any other component. Examples are processing and/or print sessions where additional selection ranges are required or core algorithms for composing invoices where the standard criteria are not sufficient, especially when customer defined fields need to be included in the selection and/or algorithm.

How to request a new Process Extension

The possibility to skip objects in processing and/or print sessions is a generic approach and can be used in every session where this Process Extension type has been implemented in the standard application. If you need to additional criteria whether or not objects may be processed by a session and that session has not been prepared for this Process Extension type, you can request this.

The other types of Process Extensions, where core algorithms can be extended, can be requested as well.

Apply the following process if you need a new Process Extension:

- 1 Evaluate if the request is generic. Make sure the required feature cannot be achieved with personalizing a standard session or process or by using one of the other extension points (for example a table extension).
- 2 In case of a skip Process Extension type, create an incident in the Infor Customer Portal. In case of another Process Extension type, create an enhancement request in Infor's ERS system.
- 3 Infor Development will review the requested Process Extension and will either include it in the standard product or reject the request. If the Process Extension is developed it will be released via the regular delivery process.
- 4 After the new solution has been installed the customer can implement the new Process Extension using the extension modeler.
- 5 If an incident was created, Infor Support will complete the incident.

Available Process Extensions

The last chapter of this document describes the available Process Extensions for Infor LN (10.6) and how they must be implemented.

If the Process Extensions described in this document are not shown in the Extension Modeler in your environment, it may be necessary to apply a Knowledge Base article (KB) that can be found in the Infor Customer Portal. The applicable KB number is mentioned in the Process Extension description.

Chapter 2 Public Interfaces for Extensibility

Public Interfaces for Exception

The following functions are available:

[Exception.Delete](#)

[Exception.GetMessage](#)

[Exception.NumberOfMessages](#)

Exception.Delete

DLL:	tcextextapi
	This function is available from KB1970778 .
Syntax:	Exception.Delete(ref long ioExceptionID)
Usage:	Expl: This function deletes the exception to free memory. Pre: ioExceptionID should refer to an Exception. Post: None Input: ioExceptionID - the exception id. Output: ioExceptionID - the exception id. Return: None

Exception.GetMessage

DLL:	tcextextapi
	This function is available from KB1970778 .
Syntax:	Exception.GetMessage (

	<pre> long iExceptionID, long iMessageIndex, ref domain tcmcs.s999m oMessageDescription mb) </pre>
Usage:	<p>Expl: This function reads message description from all messages in the XML identified by iExceptionID for a certain index.</p> <p>Pre: iExceptionID should refer to an Exception.</p> <p>Post: None</p> <p>Input:</p> <ul style="list-style-type: none"> iExceptionID - the exception id. iMessageIndex - the index for the message to be returned. iMessageIndex should be greater than zero and less than the number of messages. <p>Output:</p> <ul style="list-style-type: none"> oMessageDescription - The found message. <p>Return: None</p>

Exception.NumberOfMessages

DLL:	<p>tcextextapi</p> <p>This function is available from KB1970778.</p>
Syntax:	<pre> long Exception.NumberOfMessages (long iExceptionID) </pre>
Usage:	<p>Expl: This function determines the number of messages that have been stored in the XML where iExceptionID refers to.</p> <p>Pre: iExceptionID should refer to a valid XML with the structure as described above.</p> <p>Post: None</p> <p>Input:</p> <ul style="list-style-type: none"> iExceptionID - the exception id that points to the XML. <p>Output:</p> <ul style="list-style-type: none"> None <p>Return: The number of found messages. If iExceptionID does not refer to a valid XML the return value is 0.</p>

Chapter 3 Public Interfaces for Common

Public Interfaces for Common

The following functions are available:

[Common.ConvertAmount](#)

[Common.ConvertQuantity](#)

[Common.GetFinancialCompanyOfEntity](#)

[Common.GetFormattedAddress](#)

[Common.GetParameters](#)

[Common.RoundAmount](#)

[Common.RoundQuantity](#)

Common.ConvertAmount

DLL:	tcextemmap		
	This function is available from KB1970778 .		
Syntax:	<pre>long Common.ConvertAmount(domain tcncmp iFinancialCompany, domain tcamnt iSourceAmount, domain tcccur iSourceCurrency, domain tcrtyp iExchangeRateType, domain tcdate iRateDateUTC, domain tcccur iTargetCurrency, ref domain tcamnt oTargetAmount, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>		
Usage:	<p>Expl: This function converts an amount in one currency to an amount in another currency.</p> <p>The rates are read based on the given iRateDateUTC for the given iExchangeRateType. If the iExchangeRateType is not passed, the function will use the Internal Rate Type defined for the company.</p>		

	<pre> Pre: Company must be a valid company. Post: None Input: iFinancialCompany - Financial Company: Mandatory iSourceAmount - Source Amount iSourceCurrency - Source Currency: Mandatory iExchangeRateType - Source Rate Type; if not filled, the Internal Rate Type will be used. iRateDateUTC - Rate Date (UTC) iTargetCurrency - Target Currency: Mandatory Output: oTargetAmount - Target Amount, result of the conversion. oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information. Retrun: 0 - Amount is converted. DALHOOKERROR - Otherwise. </pre>
--	--

Common.ConvertQuantity

DLL:	<p>tcextcomapi</p> <p>This function is available from KB3627590.</p>
Syntax:	<pre> long Common.ConvertQuantity(domain tcitem iItem, domain tccuni iFromUnit, domain tcqstl iFromQuantity, domain tccuni iToUnit, ref domain tcqstl oToQuantity, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID) </pre>
Usage:	<p>Expl: This function converts a quantity specified in a unit to a quantity specified in another unit. Rounding will not be done. Common.RoundQuantity can be used for rounding.</p> <pre> Post: None Input: iItem - Item iFromUnit - From Unit: Mandatory iFromQuantity - From Quantity iToUnit - To Unit: Mandatory Output: oToQuantity - To Quantity oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID oExceptionID - An ID that refers to all error </pre>

	<p>information. Use the functions in Exception to get all relevant information.</p> <p>Return: 0 - Quantity is converted. <> 0 - Otherwise.</p>
--	--

Common.GetFinancialCompanyOfEntity

DLL:	<p>tcextemapi</p> <p>This function is available from KB2052340.</p>
Syntax:	<pre>long Common.GetFinancialCompanyOfEntity(domain tcncmp iLogisticCompany, domain tcomm.enty iEntityType, domain tcomm.enio iEntity, ref domain tcncmp oFinancialCompany, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>
Usage:	<p>Expl: This function gets the financial company of the logistic company linked to entity.</p> <p>Pre:</p> <p>Post:</p> <p>Input: i.logistic.company - Logistic Company: Mandatory i.entity.type - Entity Type: Mandatory i.entity - Entity: Mandatory</p> <p>Output:</p> <p> oFinancialCompany - Financial company of the enterprise unit linked to the entity. oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information.</p> <p>Return: 0 - Financial company is found. DALHOOKERROR - Otherwise.</p>

Common.GetFormattedAddress

DLL:	<p>tcextcomapi</p> <p>This function is available from KB2013553.</p>
Syntax:	<pre>long Common.GetFormattedAddress(domain tccom.cadr iAddress, long iNumberOfLines,</pre>

	<pre> domain tcccty iFromCountry, ref string oFormattedAddress(,) fixed, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID) </pre>
Usage:	<p>Expl.: This functions formats an given addresscode into a formatted address array of a given number of lines.</p> <p>Pre: iAddress must exists in tccoml30 Multibyte Array used for oFormattedAddress must be declared and initialized.</p> <p>Post: NA</p> <p>Input:</p> <ul style="list-style-type: none"> iAddress - The address code for which the formatted address must be generated. (mandatory) iNumberOfLines - The maximum number of lines of the formatted address.(mandatory) iFromCountry - When iFromCountry is filled, the country information will only be used in the formatted address when it differs from iFromCountry. When left empty always the country information is used in the formatted address. <p>*Example</p> <p>if i.from.country = "NLD" the Dutch addresses will not have country information in the formatted address. This can be used when a company located in "NLD" sends invoices or mailings to addresses in "NLD".</p> <pre> Moonen Shipyards BV Kade 35 1780 AA Den Helder The addresses outside "NLD" will have country information in the formatted address: Moonen F&ordertechnik GmbH Balhorner Feld 1 33106 Paderborn Deutschland if i.from.country = empty both addresses will have country information in the formatted address: Moonen Shipyards BV Kade 35 1780 AA Den Helder Nederland Moonen F&ordertechnik GmbH Balhorner Feld 1 33106 Paderborn Deutschland </pre> <p>Output:</p> <ul style="list-style-type: none"> oFormattedAddress - Array with formatted address lines. oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID oExceptionID - An ID that refers to all error information. Use the functions in

	<p>Exception to get all relevant information.</p> <p>Return values:</p> <p>0 - Formatted address is returned</p> <p>DALHOOKERROR - on errors</p>
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Common.GetParameters

DLL:	<p>tcxcomapi</p> <p>This function is available from KB2210841.</p>
Syntax:	<pre>long Common.GetParameters(domain tcncmp iCompany, domain tctabl.c iTableCode, ref tcmcs.s999m oExceptionMessage mb, ref long oExceptionID, ...)</pre>
Usage:	<p>Expl: This function reads one or more parameters from a standard LN parameter table. Note that this function uses variable arguments, for input and output. Data is retrieved via name value pairs: the field mnemonic and the field value.</p> <p>Several parameter-fields are stored as arrays. Individual elements of these parameter-fields can be retrieved by adding the element number to the field-mnemonic. Example: "qipo(28)", "mvst(2)".</p> <p>Example: When the 'Minimal Picks' and 'Quarantine Inventory Available for Planning by Origin' are needed from the Inventory Handling parameters, the call of this public interface is as follows:</p> <pre>if Common.GetParameters(/* Fixed arguments: company, --> input "whinh000", --> input exception.message, --> output exception.id, --> output /* Variable arguments: "minp", --> input minimal.picks, --> output "qipo(1)", --> input l.qipo(1), --> output "qipo(2)", --> input l.qipo(2), --> output "qipo(3)", --> input l.qipo(3)) <> 0 then --> output /* Error, do something Exception.Delete(exception.id) endif</pre> <p>Pre: None</p> <p>Post: None</p> <p>Input:</p> <p>iCompany - Company: Mandatory</p>

	<p>Note: for reading "tccom000" always the current company is taken.</p> <p>iTableCode - Code of the parameter table: Mandatory. Example: "tpctm000"</p> <p>... - The field mnemonic of the required parameters.</p> <p>Output:</p> <p>oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID.</p> <p>oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information.</p> <p>... - The value of the required parameters.</p> <p>Return: 0 - Parameter(s) read. <> 0 - Error occurred.</p>
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Common.RoundAmount

DLL:	<p>ttextcomapi</p> <p>This function is available from KB2210841.</p>
Syntax:	<pre>long Common.RoundAmount(double iUnroundedAmount, domain tcmcs.st14 iDomainName, domain tcccur iCurrency, ref double oRoundedAmount, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>
Usage:	<p>Expl.: This functions rounds an amount with a given domain and currency.</p> <p>Pre: NA</p> <p>Post: NA</p> <p>Input : iUnroundedAmount - The amount that must be rounded. iDomainName - The domain name. (mandatory) iCurrency - The currency. (mandatory)</p> <p>Output: oRoundedAmount - The rounded amount. oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID</p> <p>oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information.</p> <p>Return values:</p> <p>0 - Rounded amount is returned <> 0 - on errors</p>

Common.RoundQuantity

DLL:	tcextcomapi	
	This function is available from KB2054574 .	
Syntax:	<pre>long Common.RoundQuantity(double iUnroundedQuantity, domain tcmcs.st14 iDomainName, domain tccuni iUnit, ref double oRoundedQuantity, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>	
Usage:	<p>Expl.: This function rounds a quantity depending on given domain and unit.</p> <p>Pre: NA</p> <p>Post: NA</p> <p>Input : iUnroundedQuantity - The quantity that must be rounded. iDomainName - The domain name. (mandatory) iUnit - The unit. (mandatory)</p> <p>Output: oRoundedQuantity - The rounded quantity. oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID</p> <p>oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information.</p> <p>Return values:</p> <p>0 - Rounded quantity is returned</p> <p>DALHOOKERROR - on errors</p>	

Chapter 4 Public Interfaces for Item

Public Interfaces for Item

The following functions are available:

[Item.GetCostingData](#)

[Item.GetData](#)

[Item.GetOrderingData](#)

Item.GetCostingData

DLL:	tiextcprapi												
	This function is available from KB2066826 .												
Syntax:	<pre>long Item.GetCostingData(domain tcncmp iLogisticCompany, domain tcitem iItem, domain tcomm.grid iEnterpriseUnit, boolean iForceRead, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID, ...)</pre>												
Usage:	<p>Expl: This function retrieves data from Item - Costing Data. Individual fields are retrieved, multiple fields can be retrieved in one call.</p> <p>The enterprise.unit argument is only used when the parameter Standard Cost by Enterprise Unit is set to Active in Implemented Software Components. In that case it is necessary to supply an Enterprise Unit when the item-type requires this. For item types Cost or Service, no Enterprise Unit is expected.</p> <p>The set of supported fields for retrieval is limited. The ones marked with EU only have relevance when Standard Cost by Enterprise Unit is Active.</p> <table><tr><td>Mnemonic</td><td>-</td><td>Description</td><td>-</td><td>Scope</td></tr><tr><td>type</td><td>-</td><td>Item Costing Type</td><td>-</td><td>EU</td></tr></table>			Mnemonic	-	Description	-	Scope	type	-	Item Costing Type	-	EU
Mnemonic	-	Description	-	Scope									
type	-	Item Costing Type	-	EU									

	<pre> base - Standard Cost Base - EU cwar - Warehouse - EU cofc - Supplying Purchase Office - EU scos - Costing Source - EU sueu - Supplying Enterprise Unit - EU spit - Surcharges by Item - vpwh - Surcharges by Warehouse - ccur - Item Costing Currency - ltcp - Last Calculation Date - chrt - Standard Cost Component Scheme- coyn - Combined Ownership Allowed - inlc - Included Landed Costs - lcst - Landed Costs Set - </pre> <p>Note: this function uses variable arguments, for input and output. Data is retrieved via value pairs: specify the field and the field value. Example: when item costing warehouse and currency are needed, the function must be called as follows:</p> <pre> if Item.GetCostingData(/* Fixed arguments: company, --> input item, --> input enterprise.unit, --> input force.read, --> input exception.message, --> output exception.id, --> output /* Variable arguments: "cwar", --> input warehouse, --> output "ccur", --> input currency) <> 0 then --> output /* Error, do something Exception.Delete(exception.id) endif </pre> <p>Pre: None Post: None Input:</p> <pre> iLogisticCompany - Logistic Company: Mandatory iItem - Item: Mandatory iEnterpriseUnit - Enterprise Unit - not mandatory iForceRead - Option to force new query instead of using cached information ... - The field mnemonic of the required field. </pre> <p>Output:</p> <pre> oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information. ... - The value of the required field. Return: 0 - Data read </pre>
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	DALHOOKERROR	- Otherwise.
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Item.GetData

DLL:	tcextibdapi								
	This function is available from KB2043720 .								
Syntax:	<pre> long Item.GetData(domain tcncmp iLogisticCompany, domain tcitem iItem, domain tcsite iSite, boolean iForceRead, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID, ...) </pre>								
Usage:	<p>Expl: Retrieve data from Items</p> <p>The required field is specified by the field menomonic, the output value is filled in the output argument depending on the data type.</p> <p>This function is Multi Site aware, data is read from general level or site level, depending on the input arguments Site and implementation phase of Multi Site.</p> <p>Note: this function uses variable arguments, for input and output. Data is retrieved via value pairs: specify the field and the field value.</p> <p>Example: when item project and customized are needed, the function must be called as follows:</p> <pre> if Item.GetData(/* Fixed arguments: company, --> input item, --> input site, --> input force.read, --> input exception.message, --> output exception.id, --> output /* Variable arguments: "cprj", --> input project, --> output "cust", --> input customized) <> 0 then --> output /* Error, do something Exception.Delete(exception.id) endif </pre> <p>Pre: None</p> <p>Post: None</p> <p>Input:</p> <table> <tr> <td>iLogisticCompany</td><td>- Logistic Company: Mandatory.</td></tr> <tr> <td>iItem</td><td>- Item: Mandatory.</td></tr> <tr> <td>iSite</td><td>- Site: Not Mandatory.</td></tr> <tr> <td>iForceRead</td><td>- Option to force new query in stead of</td></tr> </table>	iLogisticCompany	- Logistic Company: Mandatory.	iItem	- Item: Mandatory.	iSite	- Site: Not Mandatory.	iForceRead	- Option to force new query in stead of
iLogisticCompany	- Logistic Company: Mandatory.								
iItem	- Item: Mandatory.								
iSite	- Site: Not Mandatory.								
iForceRead	- Option to force new query in stead of								

	<pre> ... Output: oExceptionMessage oExceptionID ... Return: 0 DALHOOKERROR </pre>	<pre> using cached information. - The field mnemonic of the required field. - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID. - An ID that refers to all error information. Use the functions in Exception to get all relevant information. - The value of the required field. - Data read. - Otherwise. </pre>
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Item.GetOrderingData

DLL:	tcextibdapi
	This function is available from KB2043720 .
Syntax:	<pre> long Item.GetOrderingData(domain tcncmp iLogisticCompany, domain tcitem iItem, domain tcsite iSite, boolean iForceRead, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID, ...) </pre>
Usage:	<p>Expl: Retrieves data from Items - Ordering. The required field is specified by the field mnemonic, the output value is filled in the output argument depending on the data type. This function is Multi Site aware, data is read from general level or site level, depending on the input arguments Site and implementation phase of Multi Site.</p> <p>Note: this function uses variable arguments, for input and output. Data is retrieved via value pairs: specify the field and the field value.</p> <p>Example: when item ordering warehouse and order interval are needed, the function must be called as follows:</p> <pre> if Item.GetData(* Fixed arguments: company, --> input item, --> input site, --> input force.read, --> input exception.message, --> output exception.id, --> output * Variable arguments: </pre>

	<pre> "cwar", --> input warehouse, --> output "oint", --> input order.interval) <> 0 then --> output /* Error, do something Exception.Delete(exception.id) endif Pre: None Post: None Input: iLogisticCompany - Logistic Company: Mandatory iItem - Item: Mandatory iSite - Site: Not Mandatory iForceRead - Option to force new query in stead of using cached information. ... - The field mnemonic of the required field. Output: oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID. oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information. ... - The value of the required field. Return: 0 - Data read. DALHOOKERROR - Otherwise. </pre>
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Chapter 5 Public Interfaces for Job Shop

Public Interfaces for ProductVariant

The following functions are available:

[ProductVariant.GenerateProductStructureWithoutProject](#)

ProductVariant.GenerateProductStructureWithoutProject

DLL:	tiextpcfapi	
	This function is available from KB2295738 .	
Syntax:	<pre>long ProductVariant.GenerateProductStructureWithoutProject(domain tccpva iProductVariant, domain tcdate iReferenceDate, ref domain tcitem oItem, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>	
Usage:	<p>Expl: This Public Interface generates a Product Structure based on a configured Product Variant, without a Project. This can also be done using session tipcs2220m000. The configured Product Variant can be created using ProductVariant.StartConfigurator or via the Product Configurator (tipcf5120m000).</p> <p>Pre: Db.retry point must be set Product Variant must be configured.</p> <p>Post: Transaction must be aborted or committed.</p> <p>Input: iProductVariant - Product Variant (Mandatory). Cannot be for an Assembly Item iReferenceDate - Reference Date (Optional). If empty, the current date is used.</p> <p>Output: oItem - The created custom Item. oExceptionMessage - The last message if any message is found. If more than one message is given, these are present in the oExceptionID. oExceptionID - An ID that refers to the exception information. Use the functions in</p>	

	<p>Return: 0 <> 0</p>	<p>Exception to get all relevant information. - Structure generation completed. - Otherwise.</p>
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Chapter 6 Public Interfaces for Purchase

Public Interfaces for PurchaseRequisition

The following functions are available:

[PurchaseRequisition.ApproveApprovalRecord](#)

PurchaseRequisition.ApproveApprovalRecord

DLL:	tdextpurapi This function is available from KB2185794 .
Syntax:	<pre> long PurchaseRequisition.ApproveApprovalRecord(domain tcrqno iPurchaseRequisition, domain tcsern iSequenceNumber, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID) </pre>
Usage:	<p>Expl.: This function can be used to approve the given Requisition Approval Progress record. Approval is only allowed if all previous records have already been approved. This function checks whether the current user is allowed to perform the approval. The purchase requisition parameter/setting 'Approval Authorizations' (tdpur000.apau.2/tdpur082.apau) is taken into account for this. This function cannot be used if approval of requisitions is done through Workflow.</p> <p>Pre: Caller must set retry-point</p> <p>Post: Caller must commit/abort transaction</p> <p>Input: iPurchaseRequisition - Purchase Requisition; Mandatory. iSequenceNumber - Sequence number of the Approval Progress record; Mandatory</p> <p>Output: oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID</p> <p>oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information.</p> <p>Return: 0 - The Approval Progress record is approved.</p>

	<> 0	- An error occurred
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Public Interfaces for PurchaseRequisitionLine

The following functions are available:

[PurchaseRequisitionLine.ConvertToPurchaseOrder](#)

[PurchaseRequisitionLine.ConvertToPurchaseRFQ](#)

PurchaseRequisitionLine.ConvertToPurchaseOrder

DLL:	tdextpurapi	
	This function is available from KB2185794 .	
Syntax:	<pre> long PurchaseRequisitionLine.ConvertToPurchaseOrder(domain tcrqno iPurchaseRequisition, domain tcpono iRequisitionLine, domain tcseri iOrderSeries, domain tccotp iOrderType, domain tcseri iSubcontractingOrderSeries, domain tccotp iSubcontractingOrderType, domain tcseri iServiceSubcontractingOrderSeries, domain tccotp iServiceSubcontractingOrderType, domain tcyesno iCalculateNewPriceAndDiscounts, domain tcyesno iCurrencyFromBusinessPartner, domain tcorno iPreviousPurchaseOrder, domain tcpono iPreviousPurchaseOrderLine, ref domain tcorno oGeneratedOrder, ref domain tcpono oGeneratedOrderLine, ref domain tcpono oGeneratedOrderSequence, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID) </pre>	
Usage:	<p>Expl: This function converts the given requisition line to a purchase order. Conversion is only allowed if the requisition header has the proper status (i.e. Approved or In Process), and the requisition line is not rejected. The Conversion Type of the requisition line must be 'Purchase Order'.</p> <p>When input argument iPreviousPurchaseOrder is filled, this function tries to add a line to that order. If the requisition line does not match with the given order, then a new purchase order will be generated. If maximal commingling must be obtained, then the order in which the requisition lines are converted is important.</p> <p>When input argument iPreviousPurchaseOrderLine is filled, the</p>	

	<p>function tries to add another sequence to that order line.</p> <p>Pre: Caller must set a retry-point</p> <p>Post: Caller must commit or abort the transaction.</p> <p>Input: iPurchaseRequisition - Requisition; Mandatory</p> <p>iRequisitionLine - Requisition Line; Mandatory</p> <p>iOrderSeries - Order Series that will be used to generate the purchase order. Depending on the setup, this can be empty.</p> <p>iOrderType - Order Type that will be used to generate the purchase order. Depending on the setup, this can be empty.</p> <p>iSubcontractingOrderSeries - Order Series for subcontracting purchase orders.</p> <p>iSubcontractingOrderType - Order Type for subcontracting purchase orders.</p> <p>iServiceSubcontractingOrderSeries - Order Series for service subcontracting purchase orders.</p> <p>iServiceSubcontractingOrderType - Order Type for service subcontracting purchase orders.</p> <p>iCalculateNewPriceAndDiscounts</p> <p>- Yes: LN calculates new prices and discounts when converting requisitions to purchase orders.</p> <p>No: The prices defined in the requisition are transferred to the purchase order.</p> <p>iCurrencyFromBusinessPartner</p> <p>- Yes: LN uses the business partner's currency on the purchase order. The requisition's price and amount are converted to this currency.</p> <p>No: LN uses the currency of the requisition on the purchase order.</p> <p>iPreviousPurchaseOrder</p> <p>- If filled, the function tries to add a line to that order. Mandatory if iPreviousPurchaseOrderLine is filled.</p> <p>iPreviousPurchaseOrderLine</p> <p>- If filled, the function tries to add another sequence to that order line.</p> <p>Output: oGeneratedOrder - The generated purchase order</p> <p>oGeneratedOrderLine - The generated purchase order line</p> <p>oGeneratedOrderSequence - The generated purchase order line sequence</p> <p>Return: 0 - The requisition line is converted</p> <p><> 0 - An error occurred</p>
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PurchaseRequisitionLine.ConvertToPurchaseRFQ

DLL:	tdextpurapi
	This function is available from KB2185794 .

Syntax:	<pre> long PurchaseRequisitionLine.ConvertToPurchaseRFQ(domain tcrqno iPurchaseRequisition, domain tcpono iRequisitionLine, domain tcyesno iAddToExistingRFQ, domain tcqono iExistingRFQ, domain tcseri iRFQSeries, domain tcrfq.type iRFQType, domain tcqono iPreviousRFQ, ref domain tcqono oGeneratedRFQ, ref domain tcpono oGeneratedRFQLine, ref domain tcpono oGeneratedRFQSequence, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID) </pre>
Usage:	<p>Expl: This function converts the given requisition line to a purchase RFQ. Conversion is only allowed if the requisition header has the proper status (i.e. Approved or In Process), and the requisition line is not rejected. The Conversion Type of the requisition line must be 'RFQ'.</p> <p>Pre: Caller must set a retry-point</p> <p>Post: Caller must commit or abort the transaction.</p> <p>Input:</p> <ul style="list-style-type: none"> iPurchaseRequisition - Requisition; Mandatory iRequisitionLine - Requisition Line; Mandatory iAddToExistingRFQ - Yes: the requisition line is converted to an existing RFQ. Use iExistingRFQ to indicate to which RFQ the requisition line must be added. <p>Notes:</p> <ul style="list-style-type: none"> * this will override the value that is passed in iPreviousRFQ. * this option is only allowed if the concept of 'Enhanced Line Handling' is used for the given RFQ. <p>No: this option allows a more regular form of commingling. Several requisition lines can be converted to one (or more) RFQ's, but only if the passed RFQ matches the data on the requisition line. See explanation at 'iPreviousRFQ'.</p> <ul style="list-style-type: none"> iExistingRFQ - Indicates the RFQ to which the given requisition line must be converted. This field is mandatory if iAddToExistingRFQ is Yes. The field must be empty if iAddToExistingRFQ is No. iRFQSeries - The RFQ series that will be used when a new RFQ is generated. iRFQType - The RFQ Type that will be used when a new RFQ is generated. iPreviousRFQ - If filled, the function tries to add a requisition line to that RFQ. If they do not match, then a new RFQ is generated. Filling this field can be done when calling this function multiple times in order to convert multiple requisition lines to one (or: as little as possible) RFQs. If maximal commingling must be obtained, then the order in which the requisition lines are converted is important. <p>Output: oGeneratedRFQ - The generated RFQ</p>

	oGeneratedRFQLine oGeneratedRFQSequence Return: 0 <> 0	- The generated RFQ line - The generated RFQ sequence - The requisition line is converted - An error occurred
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Public Interfaces for PurchaseContract

The following functions are available:

[PurchaseContract.GetTotalAmounts](#)

PurchaseContract.GetTotalAmounts

DLL:	tdextpurapi	
	This function is available from KB2042557 .	
Syntax:	<pre>long PurchaseContract.GetTotalAmounts (domain tccono iPurchaseContract, ref domain tcccur oContractCurrency, ref domain tcamnt oContractOpenAmount, ref domain tcamnt oContractTotalAmount, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>	
Usage:	<p>Expl.: Function calculates total contract net amounts in contract currency. Contract is selected in the current company.</p> <p>Pre: N.A. Post: N.A.</p> <p>Input: iPurchaseContract - Purchase Contract; Mandatory.</p> <p>Output: oContractCurrency - Contract Currency. oContractOpenAmount - Contract Open Amount: Sum of amounts of all non terminated contract lines. oContractTotalAmount - Contract Total Amount: Sum of amounts of all contract lines. oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information.</p> <p>Return: 0 - Amount could be determined. DALHOOKERROR - Error occurred.</p>	

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Chapter 7 Public Interfaces for Pricing

Public Interfaces for Pricing

The following functions are available:

[Pricing.SimulatePurchasePrice](#)

[Pricing.SimulateSalesPrice](#)

Pricing.SimulatePurchasePrice

DLL:	tdextpcgapi		
	This function is available from KB2042557 .		
Syntax:	<pre>long Pricing.SimulatePurchasePrice(domain tcncmp iLogisticCompany, domain tcncmp iFinancialCompany, domain tccom.bpid iBuyFromBusinessPartner, domain tcccur iCurrency, domain tcitem iItem, domain tccom.bpid iShipFromBusinessPartner, domain tccom.bpid iInvoiceFromBusinessPartner, domain tccom.bpid iPricingBusinessPartner, domain tccwoc iPurchaseOffice, domain tcrtyp iRateType, domain tcdate iRateDate, const domain tcratc iRate(), const domain tcratf iRateFactor(), domain tccplt iPriceList, domain tccotp iOrderType, domain tccreg iArea, domain tccdec iDeliveryTerms, domain tcpaym iPaymentMethod, domain tcolid iOptionListID, domain tccpva iProductVariant, domain tcuef.effn iEffectivityUnit, domain tcguid iSpecification, domain tcmpnr iManufacturerPartNumber, domain tcmcs.cmnf iManufacturer, domain tcyesno iSubcontracted,</pre>		

		domain tcsite domain tcefex.date domain tdpcg.prit domain tcqsl1 domain tccuni domain tcconv domain tccono domain tcpono domain tccwoc domain tcpono ref domain tcpric ref domain tccuni ref domain tcconv ref boolean ref domain tdpcg.prbk ref domain tcprsg ref domain tdgen.porg ref domain tdpcg.made ref domain tdpcg.prse ref domain tdpcg.maty ref domain tdgen.dorg ref domain tdpcg.made ref domain tdpcg.prse ref domain tcdisc ref domain tddiam ref domain tccdsc ref domain tddmth ref domain tdpcg.dssc ref domain tccono ref domain tcpono ref domain tccwoc ref domain tcpono ref domain tcmpr.pagr ref domain tcprip ref domain tcprip ref domain tcmcs.s999m ref long	iSite, iPriceDate, iPriceType, iOrderQuantity, iOrderQuantityUnit, iOrderQuantityUnitConversionFactor, iContract, iContractLine, iContractOffice, iContractSequence, oPrice, oPriceUnit, oPriceUnitConversionFactor, oDerivedItemUsed, oPriceBook, oPriceStage, oPriceOrigin, oPriceMatrixDefinition, oPriceMatrixSequence, oDiscountMatrixType(), oDiscountOrigin(), oDiscountMatrixDefinition() fixed, oDiscountMatrixSequence(), oDiscountPercentage(), oDiscountAmount(), oDiscountCode() fixed, oDiscountMethod(), oDiscountSchedule() fixed, oContract, oContractLine, oContractOffice, oContractSequence, oMaterialPriceAgreement, oTotalMaterialPriceSurcharges, oTotalMaterialPrice, oExceptionMessage mb, oExceptionID)
Usage:	Expl: Pre: Post: Input:	This public interface simulates purchase price and discounts retrieval, including material price surcharge information. Price and discount retrieval is according to standard LN logic, searching through the hierarchical price structure. The output indicates from which level the information is retrieved. NA NA <pre> ***** * Mandatory input arguments. ***** iLogisticCompany - Logistic Company iFinancialCompany - Financial Company iBuyFromBusinessPartner - Buy-from Business Partner iCurrency - Currency iItem - Item ***** * Optional input arguments; if not filled, defaults are * retrieved. ***** iShipFromBusinessPartner - Ship-from Business Partner iInvoiceFromBusinessPartner - Invoice-from Business Partner iPricingBusinessPartner - Pricing Business Partner iPurchaseOffice - Purchase Office iRateType - Exchange Rate Type</pre>	

iRateDate	- Rate Date; if zero, then Price Date is used.
iRate	- Rate; if first element zero, rate and rate factor are defaulted.
iRateFactor	- Rate Factor; if first element is zero, rate and rate factor are defaulted.
iPriceList	- Price List
iOrderType	- Order Type
iArea	- Area
iDeliveryTerms	- Delivery Terms; not supported.
iPaymentMethod	- Payment Method
iOptionListID	- Option List ID
iProductVariant	- Product Variant
iEffectivityUnit	- Effectivity Unit
iSpecification	- Specification
iManufacturerPartNumber	- ManufacturerPartNumber
iManufacturer	- Manufacturer
iSubcontracted	- Subcontracted; if empty, 'no' is used
iSite	- Site
iPriceDate	- Price Date; if zero, then current date and time is used.
iPriceType	- Price Type; if empty, 'buying' is used
iOrderQuantity	- Order Quantity
iOrderQuantityUnit	- Order Quantity Unit
iOrderQuantityUnitConversionFactor	- Order Quantity Unit Conversion Factor
iContract	- Contract; if not filled, Contract, Contract Line and Contract Office are defaulted (if applicable) without user interaction.
iContractLine	- Contract Line; see Contract
iContractOffice	- Contract Office; see Contract
iContractSequence	- Contract Sequence
Output:	

* Price Output.	

oPrice	- Price
oPriceUnit	- Price Unit
oPriceUnitConversionFactor	- Price Unit Conversion Factor
oDerivedItemUsed	- Derived Item Used
oPriceBook	- Price Book
oPriceStage	- Price Stage
oPriceOrigin	- Price Origin
oPriceMatrixDefinition	- Price Matrix Definition
oPriceMatrixSequence	- Price Matrix Sequence

* Discount Output; memory allocation (11 levels) for arrays	
* needed.	

oDiscountMatrixType	- Discount Matrix Type (array)
oDiscountOrigin	- Discount Origin (array)
oDiscountMatrixDefinition	- Discount Matrix Definition (array)
oDiscountMatrixSequence	- Discount Matrix Sequence (array)

	<pre> oDiscountPercentage - Discount Percentage (array) oDiscountAmount - Discount Amount (array) oDiscountCode - Discount Code (array) oDiscountMethod - Discount Method (array) oDiscountSchedule - Discount Schedule (array) ***** * Contract Output. ***** oContract - Contract; filled if price / discount origin is 'contract' oContractLine - Contract Line; see Contract oContractOffice - Contract Office; see Contract ***** * Material Price Output. ***** oMaterialPriceAgreement - Material Price Agreement oTotalMaterialPriceSurcharges - Material Price Surcharges oTotalMaterialPrice - Total Material Price ***** * Technical Output. ***** oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information. Return: 0 DALHOOKERROR - Price could be determined. - Error occurred. </pre>
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Pricing.SimulateSalesPrice

DLL:	tdextpcgapi
	This function is available from KB2042557 .
Syntax:	<pre> long Pricing.SimulateSalesPrice(domain tcncmp iLogisticCompany, domain tcncmp iFinancialCompany, domain tccom.bpid iSoldToBusinessPartner, domain tcccur iCurrency, domain tcitem iItem, domain tccom.bpid iShipToBusinessPartner, domain tccom.bpid iInvoiceToBusinessPartner, domain tccom.bpid iPricingBusinessPartner, domain tccwoc iSalesOffice, domain tcrtyp iRateType, domain tcdate iRateDate, const domain tcratc iRate(), const domain tcratf iRateFactor(), domain tccplt iPriceList, domain tccotp iOrderType, domain tccreg iArea, </pre>

	domain tccdec iDeliveryTerms, domain tdpcg.pror iPriceBookOrigin, domain tcpaym iPaymentMethod, domain tcmcs.chan iChannel, domain tccpva iProductVariant, domain tcuef.effn iEffectivityUnit, domain tcsite iSite, domain tcefex.date iPriceDate, domain tcqsl1 iOrderQuantity, domain tccuni iOrderQuantityUnit, domain tccconv iOrderQuantityUnitConversionFactor, domain tccono iContract, domain tcpono iContractLine, domain tccwoc iContractOffice, ref domain tcpric oPrice, ref domain tccuni oPriceUnit, ref domain tccconv oPriceUnitConversionFactor, ref boolean oDerivedItemUsed, ref domain tdpcg.prbk oPriceBook, ref domain tcprsg oPriceStage, ref domain tdgen.porg oPriceOrigin, ref domain tdpcg.made oPriceMatrixDefinition, ref domain tdpcg.prse oPriceMatrixSequence, ref domain tdpcg.maty oDiscountMatrixType(), ref domain tdgen.dorg oDiscountOrigin(), ref domain tdpcg.made oDiscountMatrixDefinition() fixed, ref domain tdpcg.prse oDiscountMatrixSequence(), ref domain tcdisc oDiscountPercentage(), ref domain tddiam oDiscountAmount(), ref domain tccdsc oDiscountCode() fixed, ref domain tddmth oDiscountMethod(), ref domain tdpcg.dssc oDiscountSchedule() fixed, ref domain tccono oContract, ref domain tcpono oContractLine, ref domain tccwoc oContractOffice, ref domain tcmpr.pagr oMaterialPriceAgreement, ref domain tcprp oTotalMaterialPriceSurcharges, ref domain tcprp oTotalMaterialPrice, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)
Usage:	<p>Expl: This public interface simulates sales price and discounts retrieval, including material price surcharge information. Price and discount retrieval is according to standard LN logic, searching through the hierarchical price structure. The output indicates from which level the information is retrieved.</p> <p>Pre: NA</p> <p>Post: NA</p> <p>Input:</p> <pre> ***** * Mandatory input arguments. ***** iLogisticCompany - Logistic Company iFinancialCompany - Financial Company iSoldToBusinessPartner - Sold-to Business Partner iCurrency - Currency iItem - Item ***** * Optional input arguments; if not filled, defaults are * retrieved. ***** iShipToBusinessPartner - Ship-to Business Partner iInvoiceToBusinessPartner - Invoice-to Business Partner </pre>

	iPricingBusinessPartner iSalesOffice iRateType iRateDate iRate iRateFactor iPriceList iOrderType iArea iDeliveryTerms iPriceBookOrigin iPaymentMethod iChannel iProductVariant iEffectivityUnit iSite iPriceDate iOrderQuantity iOrderQuantityUnit iOrderQuantityUnitConversionFactor iContract iContractLine iContractOffice	- Pricing Business Partner - Sales Office - Exchange Rate Type - Rate Date; if zero, then Price Date is used. - Rate; if first element zero, rate and rate factor are defaulted. - Rate Factor; if first element is zero, rate and rate factor are defaulted. - Price List - Order Type - Area - Delivery Terms; not supported. - Price Book Origin; not supported. - Payment Method - Channel; not supported. - Product Variant - Effectivity Unit - Site - Price Date; of zero, then current date and time is used. - Order Quantity - Order Quantity Unit - Order Quantity Unit Conversion Factor - Contract; if not filled, Contract, Contract Line and Contract Office are defaulted (if applicable) without user interaction. - Contract Line; see Contract - Contract Office; see Contract
Output:	<pre> ***** * Price Output. ***** oPrice - Price oPriceUnit - Price Unit oPriceUnitConversionFactor - Price Unit Conversion Factor oDerivedItemUsed - Derived Item Used oPriceBook - Price Book oPriceStage - Price Stage oPriceOrigin - Price Origin oPriceMatrixDefinition - Price Matrix Definition oPriceMatrixSequence - Price Matrix Sequence ***** * Discount Output; memeory allocation (11 levels) for arrays * needed. ***** oDiscountMatrixType - Discount Matrix Type (array) oDiscountOrigin - Discount Origin (array) oDiscountMatrixDefinition - Discount Matrix Definition (array) oDiscountMatrixSequence - Discount Matrix Sequence (array) oDiscountPercentage - Discount Percentage (array) oDiscountAmount - Discount Amount (array) oDiscountCode - Discount Code (array) oDiscountMethod - Discount Method (array) </pre>	

	<pre> oDiscountSchedule - Discount Schedule (array) ***** * Contract Output. ***** oContract - Contract; filled if if price / discount origin is 'contract' oContractLine - Contract Line; see Contract oContractOffice - Contract Office; see Contract ***** * Material Price Output. ***** oMaterialPriceAgreement - Material Price Agreement oTotalMaterialPriceSurcharges - Material Price Surcharges oTotalMaterialPrice - Total Material Price ***** * Technical Output. ***** oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information. Return: 0 - Price could be determined. DALHOOKERROR - Error occurred. </pre>
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Chapter 8 Public Interfaces for Planning

Public Interfaces for ItemOrderPlan

The following functions are available:

[ItemOrderPlan.StartPlan](#)

ItemOrderPlan.StartPlan

DLL:	cpextrrpapi		
	This function is available from KB3521627 .		
Syntax:	<pre>long ItemOrderPlan.StartPlan(long iStartMode, domain tcmcs.st30 iStartFilter, long iSessionIndex, const string iQueryExtend(), domain cpcom.plnc iPlanningScenario, domain cpitem iPlanItem, domain cprrp.perl iPeriodLength, domain cpcom.date iStartDate, domain tcyesno iSkipEmptyDays, domain tcyesno iShowDistribution, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>		
Usage:	<p>Expl: This function starts the Item Order Plan (cprrp0520m000), but only if Planning is implemented. The Item Order Plan is started in the Item View.</p> <p>Input: iStartMode Not used. Session is always started MODELESS (Parent and child are parallel sessions that can be manipulated simultaneously).</p> <p>iStartFilter Not Used.</p> <p>iSessionIndex Not Used.</p> <p>iQueryExtend Not Used</p> <p>iPlanningScenario When empty, the Actual Scenario will be used.</p> <p>iPlanItem Plan Item, Mandatory</p>		

	<div><div>iPeriodLength</div><div>iStartDate</div><div>iSkipEmptyDays</div><div>iShowDistribution</div></div> <div>When empty, then Detail is used</div> <div>When zero, then current date is used</div> <div>When empty, then Yes is used</div> <div>When empty, then Yes is used</div>
	<div>Output: No information of selected records is returned.</div>
	<div><div>oExceptionMessage</div><div>oExceptionID</div></div> <div>The last message if any message is found. If more than one message is found, these are present in the oExceptionID</div> <div>An ID that refers to the exception information. Use the functions in Exception to get all relevant information.</div>
	<div>Return: 0</div> <div><> 0</div> <div>Session started</div> <div>Otherwise.</div>

Chapter 9 Public Interfaces for Freight

Public Interfaces for FreightOrderCluster

The following functions are available:

[FreightOrderCluster.ConfirmDelivery](#)

FreightOrderCluster.ConfirmDelivery

DLL:	fmextlbdapi								
	This function is available from KB2050777 .								
Syntax:	<pre>long FreightOrderCluster.ConfirmDelivery(domain tcorno iFreightOrderCluster, domain tcdate iActualLoadDate, domain tcdate iActualUnloadDate, domain fmlbd.conv iShippedOrCompleted, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>								
Usage:	<p>Expl: This public interface can be used to set the status of the Freight Order Cluster and it's Cluster Lines to Shipped or Completed, based on the iShippedOrCompleted indicator. This public interface will have an internal transaction handling, so calling this Public Interface inside a transaction is not allowed, to prevent this from happening, this public interface will not work when called inside a logical transaction</p> <p>Pre: Transaction handling is done within this function! Calling this Public Interface from inside a transaction is forbidden and will be blocked</p> <p>Post: Exception handling can be done, when needed.</p> <p>Input:</p> <table><tr><td>iFreightOrderCluster</td><td>- Freight Order Cluster: Mandatory</td></tr><tr><td>iActualLoadDate</td><td>- Actual Load Date: Mandatory when iShippedOrComplete is set to Shipped</td></tr><tr><td>iActualUnloadDate</td><td>- Actual Unload Date: Mandatory when iShippedOrComplete is set to Complete</td></tr><tr><td>iShippedOrCompleted</td><td>- Confirm the delivery of the Freight Order Cluster to either Shipped (fmlbd.conv.shipped) or Completed (fmlbd.conv.completed)</td></tr></table> <p>Output: oExceptionMessage - The last message if the return</p>	iFreightOrderCluster	- Freight Order Cluster: Mandatory	iActualLoadDate	- Actual Load Date: Mandatory when iShippedOrComplete is set to Shipped	iActualUnloadDate	- Actual Unload Date: Mandatory when iShippedOrComplete is set to Complete	iShippedOrCompleted	- Confirm the delivery of the Freight Order Cluster to either Shipped (fmlbd.conv.shipped) or Completed (fmlbd.conv.completed)
iFreightOrderCluster	- Freight Order Cluster: Mandatory								
iActualLoadDate	- Actual Load Date: Mandatory when iShippedOrComplete is set to Shipped								
iActualUnloadDate	- Actual Unload Date: Mandatory when iShippedOrComplete is set to Complete								
iShippedOrCompleted	- Confirm the delivery of the Freight Order Cluster to either Shipped (fmlbd.conv.shipped) or Completed (fmlbd.conv.completed)								

	<p>value is not equal to 0. If more than one message is given, these are present in the oExceptionID</p> <p>oExceptionID</p> <ul style="list-style-type: none"> - An ID that refers to all error information. Use the functions in Exception to get all relevant information. <p>Return: 0</p> <p>DALHOOKERROR</p> <ul style="list-style-type: none"> - Confirm Delivery succeeded - No data found or error occurred
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Public Interfaces for FreightPlanning

The following functions are available:

[FreightPlanning.ActualizePlan](#)

[FreightPlanning.GenerateForSpecificOrderSelection](#)

[FreightPlanning.MoveShipmentToLoad](#)

FreightPlanning.ActualizePlan

DLL:	fmextlbdapi
	This function is available from KB2070843 .
Syntax:	<pre>long FreightPlanning.ActualizePlan(domain tcorno iPlan, boolean iReplanAllowed, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>
Usage:	<p>Expl: This Public Interface will actualize the given plan</p> <p>Pre: db.retry.point is set</p> <p>Post: transaction handling (abort/commit) exception handling can be done when applicable</p> <p>Input: iPlan</p> <ul style="list-style-type: none"> - Plan which must be actualized: Mandatory <p>iReplanAllowed</p> <ul style="list-style-type: none"> - Should potential freight order lines in the plan which must be replanned be replanned before actualization takes place, true or false. <p>Output: oExceptionMessage</p> <ul style="list-style-type: none"> - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID

	<p>oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information.</p> <p>Return: 0/DALHOOKERROR</p>
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FreightPlanning.GenerateForSpecificOrderSelection

DLL:	fmextlbdapi
	This function is available from KB2070843 .
Syntax:	<pre> long FreightPlanning.GenerateForSpecificOrderSelection(domain tccwoc iShippingOffice, domain fmfoc.cplg iPlanningGroup, domain fmlbd.algo iPlanningAlgorithm, domain fmlbd.dtdr iShipmentDatesBasedOn, domain fmlbd.rsel iCarrierSelectionCriterion, domain tcmcs.long iNumberOfSpecificOrders, ref domain tcorno iSpecificOrders() fixed, ref domain tcpono iSpecificOrderLineSelection, domain tcdsca iSpecificOrderLines(), domain tcyesno iPlanningDescription mb, domain tcyesno iPlanningAlgorithmBinding, domain tcyesno iFreightManagementLeadingPlan, domain tcyesno iAllowMeansOfTransportInMultiplePlans, domain tcyesno iCalculateAdditionalCosts, domain tcyesno iReplan, domain tcorno iPlanForReplan, domain tcyesno iOnlyReplanLines, domain fmfoc.lnst iReplanAdditionThroughStatus, domain fmlbd.replan iReplanningMethod, domain tcyesno iCommittedInventoryOnly, domain tcyesno iDetailedPlanningLog, domain boolean iShowProgressIndicator, ref domain tcorno oPlan, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID) </pre>
Usage:	<p>Expl: This public interface allows to generate a freight plan for a selection of freight orders and lines. It is assumed the freight orders that are present in the order arrays are having the status 'Expected' or 'Planned'. When planning is not possible due to unreachable addresses or low capacity of transport means, the plan will still be generated till the stage it fails to plan, this will lead to an unusable plan, but will allow for user analysis via the planning log.</p> <p>This public interface will not print the planning reports which are printed normally in the session "Generate Plan" (fmlbd0280m000). Errors / information messages will be available in the freight planning log, session "Planning Log" (fmlbd0530m000).</p> <p>Pre: This Public Interface has it's own transaction management, as an exception to the standard Public Interfaces. As generate plan can be a long running transaction, the Public Interface should not lock records too long.</p>

	Exception handling can be done when applicable
Post:	N.a.
Input:	<ul style="list-style-type: none"> iShippingOffice - Shipping Office: Mandatory iPlanningGroup - Planning Group: Mandatory iPlanningAlgorithm - Planning Algorithm: Mandatory Possible values: <ul style="list-style-type: none"> - Direct Shipping (fmlbd.algo.sing) - Consolidation (fmlbd.algo.cons) - Pooling (fmlbd.algo.pool) iShipmentDatesBasedOn - Shipping Dates based On: Mandatory Possible values: <ul style="list-style-type: none"> - Earliest of Possible Dates (fmlbd.dtdr.earliest) - Latest of Possible Dates (fmlbd.dtdr.latest) - Minimum of Planned Unload Dates (fmlbd.dtdr.minimum) - Average of Planned Unload Dates (fmlbd.dtdr.average) iCarrierSelectionCriterion <ul style="list-style-type: none"> - Carrier Selection: Mandatory Possible values: <ul style="list-style-type: none"> - Cheapest (fmlbd.rsel.cheap) - Fastest (fmlbd.rsel.fast) - Shortest (fmlbd.rsel.short) iNumberOfSpecificOrders - Number of specific orders in the specific order array: Mandatory iSpecificOrders - Array containing the freight order headers for which planning must be generated. iSpecificOrderLineSelection - Apply specific line selection This is to be used when specific freight order lines must be planned, when complete freight orders are to be planned it is not required to pass all the freight order lines. iSpecificOrderLines - Array containing the freight order lines for which planning must be generated. iPlanningDescription - Description of the freight plan iPlanningAlgorithmBinding <ul style="list-style-type: none"> - Planning Algorithm Binding, if planning is not possible for a certain algorithm, the logic will plan for other algorithms as well. This flag can disable that behavior. iFreightManagementLeadingPlan <ul style="list-style-type: none"> - Create a freight management leading load plan. iAllowMeansOfTransportInMultiplePlans <ul style="list-style-type: none"> - Allow the means of transport to be planned in multiple plans. iCalculateAdditionalCosts <ul style="list-style-type: none"> - Calculate Additional Costs for the generated freight plan iReplan - Replanning iPlanForReplan - Plan for Replanning: Mandatory when iReplan is set to Yes iOnlyReplanLines - Only Replan Freight Order Lines to be Replanned. iReplanAdditionThroughStatus <ul style="list-style-type: none"> - Replanning, allow updating of existing

	<p>Loads/Shipments till this status.</p> <p>iReplanningMethod - Replanning Method Possible Values</p> <ul style="list-style-type: none"> - Replan Freight Order Lines Separatly (fmlbd.replan.separate) - Combine with Planned Freight Orders (fmlbd.replan.combine) <p>iCommittedInventoryOnly - Plan for Committed Inventory Only</p> <p>iDetailedPlanningLog - Plan with the detailed planning log</p> <p>iShowProgressIndicator - Show the progress indicator to the user, this will give the user an indication on the process flow and the time required to complete the generation of the freight plan.</p> <p>Output: oPlan - The generated plan</p> <p>oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID</p> <p>oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information.</p> <p>Return: 0/DALHOOKERROR</p>
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FreightPlanning.MoveShipmentToLoad

DLL:	fmextlbdapi
	This function is available from KB2070843 .
Syntax:	<pre>long FreightPlanning.MoveShipmentToLoad(domain tcorno iShipment, domain tcorno iDestinationLoad, boolean iAllowMergeShipmentLines, boolean iDeleteEmptyLoad, boolean iCalculateFreightCostsIfInteractive, boolean iCalculateAdditionalCosts, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>
Usage:	<p>Expl: This Public Interface will move a Shipment to a Load.</p> <p>Pre: db.retry.point is set</p> <p>Post: transaction handling (abort/commit) exception handling can be done when applicable</p> <p>Input: iShipment - Shipment which must be moved: Mandatory</p> <p>iDestinationLoad - Load to which the shipment must be moved: Mandatory</p> <p>iAllowMergeShipmentLines - When iDestinationLoad already has a shipment line which has the same freight order line of any of the iSourceShipment lines, the lines must be merged. This flag determines if that should be allowed (true/false)</p> <p>iDeleteEmptyLoad - If the load from which the</p>

	<p>iSourceShipment is moved becomes empty then it will be possible to remove the empty load with the setting of this flag.</p> <p>iCalculateFreightCostsIfInteractive</p> <ul style="list-style-type: none"> - If freight costs calculation is setup to be recalculated interactively in the parameters, in the standard a question will be raised, with this flag the calculation in such cases can be set to true or false. <p>iCalculateAdditionalCosts</p> <ul style="list-style-type: none"> - If freight costs are to be calculated should the additional costs also be calculated, true or false. <p>Output: oExceptionMessage</p> <ul style="list-style-type: none"> - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID <p>oExceptionID</p> <ul style="list-style-type: none"> - An ID that refers to all error information. Use the functions in Exception to get all relevant information. <p>Return: 0/DALHOOKERROR</p>
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Public Interfaces for Load

The following functions are available:

[Load.ConfirmDelivery](#)

Load.ConfirmDelivery

DLL:	fmextlbdapi
	This function is available from KB2050777 .
Syntax:	<pre>long Load.ConfirmDelivery(domain tcorno iLoad, domain tcdate iActualLoadDate, domain tcdate iActualUnloadDate, domain fmlbd.conv iShippedOrCompleted, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>
Usage:	<p>Expl: This public interface can be used to set the status of the load and it's shipments and shipment lines to Shipped or Completed,</p>

	<p>based on the <code>iShippedOrCompleted</code> indicator.</p> <p>Pre: This Public Interface will update records and as such must be called within a transaction!</p> <p>When implementing this Public Interface, please be aware of the performance aspect. In standard, this functionality will have it's own transaction management, while the Public Interface does not!. Therefore it is strongly advisable to call this Public Interface inside a separate transaction and after returning directly perform the abort in case of errors and the commit in case this function returns 0. Long logical transaction must be prevented as records will be locked and are not available for other transactions!</p> <p>Post: Exception handling can be done, when needed.</p> <p>Input: <code>iLoad</code> - Load: Mandatory</p> <p><code>iActualLoadDate</code> - Actual Load Date: Mandatory when <code>iShippedOrComplete</code> is set to Shipped</p> <p><code>iActualUnloadDate</code> - Actual Unload Date: Mandatory when <code>iShippedOrComplete</code> is set to Complete</p> <p><code>iShippedOrCompleted</code> - Confirm the delivery of the Load to either Shipped (<code>fm1bd.conv.shipped</code>) or Completed (<code>fm1bd.conv.completed</code>)</p> <p>Output: <code>oExceptionMessage</code> - The last message if the return value is not equal to 0. If more than one message is given, these are present in the <code>oExceptionID</code></p> <p><code>oExceptionID</code> - An ID that refers to all error information. Use the functions in <code>Exception</code> to get all relevant information.</p> <p>Return: 0 - Confirm Delivery succeeded <code>DALHOOKERROR</code> - No data found or error occurred</p>
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Public Interfaces for Shipment

The following functions are available:

[Shipment.ConfirmDelivery](#)

Shipment.ConfirmDelivery

DLL:	<code>fmextlbdapi</code>
	This function is available from KB2050777 .
Syntax:	<code>long Shipment.ConfirmDelivery(domain tcorno iShipment,</code>

Public Interfaces for Freight

	domain	tcddate	iActualLoadDate,
	domain	tcddate	iActualUnloadDate,
	domain	fmlbd.conv	iShippedOrCompleted,
ref	domain	tcmcs.s999m	oExceptionMessage mb,
ref	long		oExceptionID)
Usage:	<p>Expl: This public interface can be used to set the status of the shipment and it's shipment lines to Shipped or Completed, based on the iShippedOrCompleted indicator. This public interface will have an internal transaction handling, so calling this Public Interface inside a transaction is not allowed, to prevent this from happening, this public interface will not work when called inside a logical transaction</p> <p>Pre: Transaction handling is done within this function! Calling this Public Interface from inside a transaction is forbidden and will be blocked</p> <p>Post: Exception handling can be done, when needed.</p> <p>Input: iShipment - Shipment: Mandatory iActualLoadDate - Actual Load Date: Mandatory when iShippedOrComplete is set to Shipped iActualUnloadDate - Actual Unload Date: Mandatory when iShippedOrComplete is set to Complete iShippedOrCompleted - Confirm the delivery of the Shipment to either Shipped (fmlbd.conv.shipped) or Completed (fmlbd.conv.completed)</p> <p>Output: oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID</p> <p>oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information.</p> <p>Return: 0 - Confirm Delivery succeeded DALHOOKERROR - No data found or error occurred</p>		

Chapter 10 Public Interfaces for BOD & BDE

Public Interfaces for BOD

The following functions are available:

[BOD.ActionsAfterProcessingIncomingRequest](#)

[BOD.ActionsAfterProcessingIncomingRequestWithAutomaticProcessing](#)

[BOD.ActionsBeforeProcessingIncomingRequest](#)

[BOD.ConvertFromERPItem](#)

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BOD.ActionsAfterProcessingIncomingRequest

DLL:	tcextbodapi		
	This function is available from KB2040021 .		
Syntax:	<pre>long BOD.ActionsAfterProcessingIncomingRequest(long iXMLRequest, ref long oResult, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>		
Usage:	<p>Expl: This function publishes the staged BODs that were triggered from the processing of the incoming request and resets the parameter that enabled the staging of outgoing BODs in the BOD.ActionsBeforeProcessingIncomingRequest() function. Preferably, it should be called in the AfterExecuteHook of every OnEvent section, e.g. the OnProcess, OnLoad, OnSync, OnShow, OnAcknowledge etc.</p> <p>Pre: Before the incoming BOD is processed, function BOD.ActionsBeforeProcessingIncomingRequest() must be called.</p> <p>Post: NA</p> <p>Input: iXMLRequest - XML structure with request. Mandatory</p> <p>Output: oResult - 0 if succes, otherwise <> 0</p> <p>oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID</p> <p>oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information.</p> <p>Return: 0 / DALHOOKERROR</p>		

BOD.ActionsAfterProcessingIncomingRequestWithAutomaticProcessing

DLL:	tcextbodapi		
	This function is available from KB2040021 .		
Syntax:	<pre>long BOD.ActionsAfterProcessingIncomingRequestWithAutomaticProcessing(long iXMLRequest, domain tcmcs.str132 iObjectType, domain tcmcs.str132 iObject, ref long oResult,</pre>		

	ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)
Usage:	<p>Expl: This function publishes the staged BODs that were triggered from the processing of the incoming request and resets the parameter that enabled the staging of outgoing BODs in the BOD.ActionsBeforeProcessingIncomingRequest() function. Furthermore, it starts the automatic processing (if any) for the object that was created/updated in LN from the incoming request. Preferably, this function should be called in the AfterExecuteHook of every OnEvent section, e.g. the OnProcess, OnLoad, OnSync, OnShow, OnAcknowledge etc.</p> <p>Pre: Before the incoming BOD is processed, function BOD.ActionsBeforeProcessingIncomingRequest() must be called.</p> <p>Post: NA</p> <p>Input: iXMLRequest - XML structure with request. Mandatory iObjectType - object type for which automatic processing must be started, e.g. "PurchaseOrder" iObject - The identifier of the given ObjectType e.g. the purchase order if ObjectType is "PurchaseOrder"</p> <p>Output: oResult - 0 if succes, otherwise <> 0 oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information.</p> <p>Return: 0 / DALHOOKERROR</p>

BOD.ActionsBeforeProcessingIncomingRequest

DLL:	tctxbodapi
	This function is available from KB2040021 .
Syntax:	<pre>long BOD.ActionsBeforeProcessingIncomingRequest(long iXMLRequest, ref boolean oCancel, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>
Usage:	<p>Expl: This function validates the incoming request and sets parameters needed during the processing. It validates if the Accounting Entity and the Location (Location is not checked for master data BODs) of the incoming request matches the Accounting Entity and Location of the current company (in Tenant, Accounting Entity and Location setup or in BOD Parameters) and sets output argument oCancel to true in case of a mismatch. It extracts the LastModificationPerson/IDs/ID from the incoming request and determines the linked LN user. If the LN user can be determined, it switches user to the LN user.</p>

	<p>It sets a parameter that enables the staging of outgoing BODs that are triggered from the processing of the incoming request. Preferably, it should be called in the BeforeExecuteHook of every OnEvent section, e.g. the OnProcess, OnLoad, OnSync, OnShow, OnAcknowledge etc.</p> <p>Pre: NA</p> <p>Post: After the incoming request is processed, BOD.ActionsAfterProcessingIncomingRequest() or BOD.ActionsAfterProcessingIncomingRequestWithAutomaticProcessing() must be called.</p> <p>Input: iXMLRequest - XML structure with request. Mandatory</p> <p>Output: oCancel - true, if BOD must be cancelled - false, if BOD can be processed</p> <p>oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID</p> <p>oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information.</p> <p>Return: 0 - No error occurred while executing the actions. DALHOOKERROR - An error occurred while executing the actions, or a mismatch was detected during accounting entity / location validation and BOD parameter Inbound Routing Error Handling is set to Return Error.</p>
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BOD.ConvertFromERPItem

DLL:	<p>tcextbodapi</p> <p>This function is available from KB2044306.</p>
Syntax:	<pre>long BOD.ConvertFromERPItem(domain tcitem iERPItem, ref domain tcmcs.str50 oBODItem, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>
Usage:	<p>Expl. : This function converts the ERP item to the external item used in the BODs.</p> <p>Pre : -</p> <p>Post : -</p> <p>Input : iERPItem - Mandatory.</p> <p>Output : oBODItem oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID</p> <p>oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant</p>

	information.
Return : 0	

BOD.ConvertToERPItem

DLL:	tcextbodapi										
	This function is available from KB2044306 .										
Syntax:	<pre> long BOD.ConvertToERPItem(domain tcmcs.str50 iBODItem, ref domain tcitem oERPItem, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID) </pre>										
Usage:	<p>Expl. : This function sets the ERP LN item, using the item as received from other product. (e.g. WMS)</p> <p>Process: Dynamic translation by project lookup. The first 9 characters of the item (or less dependent on item segmentation) are taken, and looked up as project code in the project table. If this code exists, the item code is assumed to represent a customized item and not converted. Otherwise it's treated as standard item and leading spaces are added.</p> <p>EXAMPLES:</p> <table> <thead> <tr> <th>CBO item string</th><th>ERP item</th></tr> </thead> <tbody> <tr> <td>"PR0000001BIKE"</td><td>"PR0000001BIKE" Project = PR0000001</td></tr> <tr> <td>"PR1 BIKE"</td><td>"PR1 BIKE" Project = PR1</td></tr> <tr> <td>" BIKE"</td><td>" BIKE"</td></tr> <tr> <td>"BIKE"</td><td>" BIKE" Project = ""</td></tr> </tbody> </table> <p>Pre : - Post : - Input : iBODItem Output : oERPItem</p> <p>oExceptionMessage</p> <p>oExceptionID</p> <p>Return : 0</p> <ul style="list-style-type: none"> - CBO item (e.g. "BIKE"). Mandatory. - LN item (e.g. " BIKE ") - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information. 	CBO item string	ERP item	"PR0000001BIKE"	"PR0000001BIKE" Project = PR0000001	"PR1 BIKE"	"PR1 BIKE" Project = PR1	" BIKE"	" BIKE"	"BIKE"	" BIKE" Project = ""
CBO item string	ERP item										
"PR0000001BIKE"	"PR0000001BIKE" Project = PR0000001										
"PR1 BIKE"	"PR1 BIKE" Project = PR1										
" BIKE"	" BIKE"										
"BIKE"	" BIKE" Project = ""										

BOD.ExecuteMethod

DLL:	tcextbodapi
	This function is available from KB2019035 .
Syntax:	<pre> long BOD.ExecuteMethod(domain tcbod.name iNoun, domain tcmcs.str30 iMethod, long long iXMLRequest, ref long oXMLResponse, ref long oXMLResult, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID) </pre>
Usage:	<p>Expl: This function executes a non-batch method for a specified BOD.</p> <p>Pre: NA</p> <p>Post: NA</p> <p>Input: iNoun - The (protected) Noun for which the method must be executed, e.g. "ReceiveDeliveryWarehousingBOD". Mandatory</p> <p>iMethod - The method to be executed, e.g. "Create" or "Change". Mandatory</p> <p>iXMLRequest - XML structure with request. Mandatory</p> <p>Output: oXMLResponse - XML structure with response (if method is executed successfully)</p> <p>oXMLResult - XML structure with result (in case of error)</p> <p>oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID</p> <p>oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information.</p> <p>Return values:</p> <p>0 - method is executed successfully</p> <p>DALHOOKERROR - on errors</p>

BOD.ExecuteOnAcknowledgeForChameleon

DLL:	tcextbodapi
	This function is available from KB2019035 .
Syntax:	<pre> long BOD.ExecuteOnAcknowledgeForChameleon(domain tcbod.name iProtectedNoun, long long iXMLRequest, ref long oXMLResponse, ref long oXMLResult, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID) </pre>
Usage:	<p>Expl: This function executes the OnAcknowledge method of a protected noun of the chameleon BOD and can only be called from the</p>

	<p>OnExecuteHook of the OnAcknowledge method of an incoming public noun. The function is used to route an incoming BOD with Acknowledge verb to a protected noun.</p> <p>Pre: NA</p> <p>Post: NA</p> <p>Input: iProtectedNoun - The (protected) Noun for which the OnAcknowledge method must be executed, e.g. "SalesOrderInBOD". Mandatory</p> <p>Output: iXMLRequest - XML structure with request. Mandatory</p> <p>oXMLResponse - XML structure with response (if method is executed successfully)</p> <p>oXMLResult - XML structure with result (in case of error)</p> <p>oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID</p> <p>oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information.</p> <p>Return: 0 / DALHOOKERROR</p>
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BOD.ExecuteOnLoadForChameleon

DLL:	<p>tcextbodapi</p> <p>This function is available from KB2019035.</p>
Syntax:	<pre>long BOD.ExecuteOnLoadForChameleon(domain tcbod.name iProtectedNoun, long iXMLRequest, ref long oXMLResponse, ref long oXMLResult, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>
Usage:	<p>Expl: This function executes the OnLoad method of a protected noun of the chameleon BOD and can only be called from the OnExecuteHook of the OnLoad method of an incoming public noun. The function is used to route an incoming BOD with Load verb to a protected noun.</p> <p>Pre: NA</p> <p>Post: NA</p> <p>Input: iProtectedNoun - The (protected) Noun for which the OnLoad method must be executed, e.g. "SalesOrderInBOD". Mandatory</p> <p>Output: iXMLRequest - XML structure with request. Mandatory</p> <p>oXMLResponse - XML structure with response (if method is executed successfully)</p> <p>oXMLResult - XML structure with result (in case of error)</p> <p>oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID</p> <p>oExceptionID - An ID that refers to all error</p>

	<p>information. Use the functions in Exception to get all relevant information.</p> <p>Return: 0 / DALHOOKERROR</p>
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BOD.ExecuteOnProcessForChameleon

DLL:	<p>tcextbodapi</p> <p>This function is available from KB2019035.</p>
Syntax:	<pre>long BOD.ExecuteOnProcessForChameleon(domain tcbod.name iProtectedNoun, long iXMLRequest, ref long oXMLResponse, ref long oXMLResult, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>
Usage:	<p>Expl: This function executes the OnProcess method of a protected noun of the chameleon BOD and can only be called from the OnExecuteHook of the OnProcess method of an incoming public noun. The function is used to route an incoming BOD with Process verb to a protected noun.</p> <p>Pre: NA</p> <p>Post: NA</p> <p>Input: iProtectedNoun - The (protected) Noun for which the OnProcess method must be executed, e.g. "SalesOrderInBOD". Mandatory</p> <p>Output: iXMLRequest - XML structure with request. Mandatory</p> <p>oXMLResponse - XML structure with response (if method is executed successfully)</p> <p>oXMLResult - XML structure with result (in case of error)</p> <p>oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID</p> <p>oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information.</p> <p>Return: 0 / DALHOOKERROR</p>

BOD.ExecuteOnSyncForChameleon

DLL:	<p>tcextbodapi</p> <p>This function is available from KB2019035.</p>
Syntax:	<pre>long BOD.ExecuteOnSyncForChameleon(</pre>

	<pre> domain tcbod.name iProtectedNoun, long iXMLRequest, ref long oXMLResponse, ref long oXMLResult, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID) </pre>
Usage:	<p>Expl: This function executes the OnSync method of a protected noun of the chameleon BOD and can only be called from the OnExecuteHook of the OnSync method of an incoming public noun. The function is used to route an incoming BOD with Sync verb to a protected noun.</p> <p>Pre: NA</p> <p>Post: NA</p> <p>Input: iProtectedNoun - The (protected) Noun for which the OnSync method must be executed, e.g. "SalesOrderInBOD". Mandatory</p> <p>Output: iXMLRequest - XML structure with request. Mandatory</p> <p>oXMLResponse - XML structure with response (if method is executed successfully)</p> <p>oXMLResult - XML structure with result (in case of error)</p> <p>oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID</p> <p>oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information.</p> <p>Return: 0 / DALHOOKERROR</p>

BOD.ExecuteOnUpdateForChameleon

DLL:	<p>tcextbodapi</p> <p>This function is available from KB2019035.</p>
Syntax:	<pre> long BOD.ExecuteOnUpdateForChameleon(domain tcbod.name iProtectedNoun, long iXMLRequest, ref long oXMLResponse, ref long oXMLResult, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID) </pre>
Usage:	<p>Expl: This function executes the OnUpdate method of a protected noun of the chameleon BOD and can only be called from the OnExecuteHook of the OnUpdate method of an incoming public noun. The function is used to route an incoming BOD with Update verb to a protected noun.</p> <p>Pre: NA</p> <p>Post: NA</p> <p>Input: iProtectedNoun - The (protected) Noun for which the OnUpdate method must be executed, e.g. "SalesOrderInBOD". Mandatory</p> <p>Output: iXMLRequest - XML structure with request. Mandatory</p> <p>oXMLResponse - XML structure with response (if method is</p>

	<p>executed successfully)</p> <p>oXMLResult - XML structure with result (in case of error)</p> <p>oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID</p> <p>oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information.</p> <p>Return: 0 / DALHOOKERROR</p>
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BOD.ExecutePublishForChameleon

DLL:	<p>tctxbodapi</p> <p>This function is available from KB2019035.</p>
Syntax:	<pre>long BOD.ExecutePublishForChameleon(domain tcbod.name iProtectedNoun, long iXMLRequest, ref long oXMLResponse, ref long oXMLResult, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>
Usage:	<p>Expl: This function executes the publishing for a protected noun of the chameleon BOD and can only be called from the OnExecuteHook of the PublishEvent method of a protected noun. It translates the protected noun to the public noun and executes the PublishEvent method of the public noun</p> <p>Pre: NA</p> <p>Post: NA</p> <p>Input: iProtectedNoun - The protected Noun, which is the BOD that calls this function, e.g. "ProductionOrderSFCBOD". Mandatory</p> <p>iXMLRequest - XML structure with request. Mandatory</p> <p>Output: oXMLResponse - XML structure with response (if PublishEvent method is executed successfully)</p> <p>oXMLResult - XML structure with result (in case of error)</p> <p>oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID</p> <p>oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information.</p> <p>Return: 0 / DALHOOKERROR</p>

BOD.ExecuteShowForChameleon

DLL:	tcextbodapi
	This function is available from KB2019035 .
Syntax:	<pre> long BOD.ExecuteShowForChameleon(domain tcbod.name iProtectedNoun, long iXMLRequest, ref long oXMLResponse, ref long oXMLResult, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID) </pre>
Usage:	<p>Expl: This function executes the Show method of the public noun of the chameleon BOD and can only be called from the OnExecuteHook of the Show method of a protected noun. It translates the protected noun to the public noun and executes the Show method of the public noun. Then it renames the response XML to the response XML of the protected noun</p> <p>Pre: NA</p> <p>Post: NA</p> <p>Input: iProtectedNoun - The protected Noun, which is the BOD that calls this function, e.g. "ProductionOrderSFCBOD". Mandatory</p> <p>Output: iXMLRequest - XML structure with request. Mandatory</p> <p>oXMLResponse - XML structure with response (if method is executed successfully)</p> <p>oXMLResult - XML structure with result (in case of error)</p> <p>oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID</p> <p>oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information.</p> <p>Return: 0 / DALHOOKERROR</p>

BOD.GetIdAccountingEntity

DLL:	tcextbodapi
	This function is available from KB1987704 .
Syntax:	<pre> long BOD.GetIdAccountingEntity(domain tcncmp iCompany, domain tcbod.name iNoun, long iEntityType, const string iEntityCode(), domain tcmcs.tabl iRootTable, ref domain tcbod.acen oAccountingEntity, ref boolean oAccountingEntityisSet, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID) </pre>

Usage:	<p>Expl: This function determines the Accounting Entity.</p> <p>Pre: NA</p> <p>Post: NA</p> <p>Input: iCompany - Company for which the accounting entity is determined. Mandatory</p> <p>iNoun - Noun: Mandatory</p> <p>iEntityType - Entity Type: Mandatory for transactional data BODs Possible values: 1 (Warehouse), 2 (Department), 3 (Project)</p> <p>iEntityCode - Entity Code: Mandatory for transactional data BODs Possible values: The warehouse, department or project. The Entity Type and Entity Code are used to determine the Tenant, AccountingEntity and Location.</p> <p>iRootTable - Root Table: Mandatory for master data BODs</p> <p>Output: oAccountingEntity - Accounting Entity</p> <p>oAccountingEntityisSet - Accounting Entity set (true or false).</p> <p>oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID</p> <p>oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information.</p> <p>Return: 0 - Accounting Entity is determined.</p> <p>DALHOOKERROR - Otherwise.</p>
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BOD.GetIdLocation

DLL:	<p>tcextbodapi</p> <p>This function is available from KB1987704.</p>
Syntax:	<pre>long BOD.GetIdLocation (domain tcncmp iCompany, domain tcbod.name iNoun, long iEntityType, const string iEntityCode(), domain tcmcs.tabl iRootTable, ref domain tcbod.lctn oLocation, ref boolean oLocationisSet, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>
Usage:	<p>Expl: This function determines the Location.</p> <p>Pre: NA</p> <p>Post: NA</p> <p>Input: iCompany - company for which the location is determined. Mandatory</p> <p>iNoun - Noun: Mandatory</p> <p>iEntityType - Entity Type: Mandatory for transactional data BODs Possible values: 1 (Warehouse), 2 (Department), 3 (Project)</p> <p>iEntityCode - Entity Code: Mandatory for transactional data BODs</p>

	<p>Possible values: The warehouse, department or project. The Entity Type and Entity Code are used to determine the Tenant, AccountingEntity and Location.</p> <p>Output:</p> <ul style="list-style-type: none"> iRootTable - Root Table: Mandatory for master data BODs oLocation - Location oLocationisSet - Location set (true or false). oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information. <p>Return: 0 - Location is determined. DALHOOKERROR - Otherwise.</p>
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BOD.GetIdLogicalID

DLL:	<p>tcextbodapi</p> <p>This function is available from KB1987704.</p>
Syntax:	<pre>long BOD.GetIdLogicalID(domain tcncmp iCompany, domain tcbod.name iNoun, long iEntityType, const string iEntityCode(), domain tcmcs.tabl iRootTable, ref domain tcbod.loid oLogicalID, ref boolean oLogicalIDisSet, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>
Usage:	<p>Expl: This function determines the Logical ID.</p> <p>Pre: NA</p> <p>Post: NA</p> <p>Input:</p> <ul style="list-style-type: none"> iCompany - company for which the logical Id is determined. Mandatory iNoun - Noun: Mandatory iEntityType - Entity Type: Mandatory for transactional data BODs Possible values: 1 (Warehouse), 2 (Department), 3 (Project) iEntityCode - Entity Code: Mandatory for transactional data BODs Possible values: The warehouse, department or project. The Entity Type and Entity Code are used to determine the Tenant, AccountingEntity and Location. <p>Output:</p> <ul style="list-style-type: none"> iRootTable - Root Table: Mandatory for master data BODs oLogicalId - LogicalID oLogicalIdisSet - LogicalID set (true or false). oExceptionMessage - The last message if the return value is not equal to 0.

	<p>If more than one message is given, these are present in the oExceptionID</p> <p>oExceptionID</p> <ul style="list-style-type: none"> - An ID that refers to all error information. Use the functions in Exception to get all relevant information. - LogicalId is determined. - Otherwise. <p>Return: 0</p> <p>DALHOOKERROR</p>
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BOD.GetPublishingAllowed

DLL:	<p>tcontextbodapi</p> <p>This function is available from KB2267552.</p>
Syntax:	<pre>long BOD.GetPublishingAllowed(ref boolean oAllowed, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>
Usage:	<p>Expl: This function checks if BOD publishing is allowed in the current company.</p> <p>Pre: NA</p> <p>Post: NA</p> <p>Input: NA</p> <p>Output: oAllowed</p> <ul style="list-style-type: none"> - true: publishing is allowed - false: publishing is not allowed - The last message if the return value is not equal to 0. - If more than one message is given, these are present in the oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information. - OK. - Error occurred. <p>Return: 0</p> <p><> 0</p>

BOD.HandleStagingAfterProcessingIncomingRequest

DLL:	<p>tcontextbodapi</p> <p>This function is available from KB2040021.</p>
Syntax:	<pre>long BOD.HandleStagingAfterProcessingIncomingRequest(domain tcbod.name iNoun, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>
Usage:	<p>Expl: This function publishes the staged BODs that were triggered</p>

	<p>from the processing of the incoming request and resets the parameter that enabled the staging of outgoing BODs in the BOD.HandleStagingBeforeProcessingIncomingRequest() function. Preferably, it should be called in the AfterExecuteHook of every OnEvent section, e.g. the OnProcess, OnLoad, OnSync, OnShow, OnAcknowledge etc.</p> <p>Pre: Before the incoming BOD is processed, function BOD.HandleStagingBeforeProcessingIncomingRequest() must be called.</p> <p>Post: NA</p> <p>Input: iNoun</p> <ul style="list-style-type: none"> - The noun of the incoming request e.g. "PurchaseOrderBOD" <p>Output: oExceptionMessage</p> <ul style="list-style-type: none"> - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID <p>oExceptionID</p> <ul style="list-style-type: none"> - An ID that refers to all error information. Use the functions in Exception to get all relevant information. <p>Return: 0 / DALHOOKERROR</p>
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BOD.HandleStagingBeforeProcessingIncomingRequest

DLL:	<p>tcextbodapi</p> <p>This function is available from KB2040021.</p>
Syntax:	<pre>long BOD.HandleStagingBeforeProcessingIncomingRequest(domain tcbod.name iNoun, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID)</pre>
Usage:	<p>Expl: This function sets a parameter that enables the staging of outgoing BODs that are triggered from the processing of the incoming request. Preferably, it should be called in the BeforeExecuteHook of every OnEvent section, e.g. the OnProcess, OnLoad, OnSync, OnShow, OnAcknowledge etc.</p> <p>Pre: NA</p> <p>Post: After the incoming BOD is processed, function BOD.HandleStagingAfterProcessingIncomingRequest() must be called</p> <p>Input: iNoun</p> <ul style="list-style-type: none"> - The noun of the incoming request e.g. "PurchaseOrderBOD" <p>Output: oExceptionMessage</p> <ul style="list-style-type: none"> - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID <p>oExceptionID</p> <ul style="list-style-type: none"> - An ID that refers to all error information. Use the functions in Exception to get all relevant information. <p>Return: 0 / DALHOOKERROR</p>

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BOD.InterruptPublishing

DLL:	tcextbodapi												
	This function is available from KB2267552 .												
Syntax:	<pre> long BOD.InterruptPublishing(boolean iAllBods, domain tcbod.name iNoun, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID) </pre>												
Usage:	<p>Expl: This function interrupts the publishing of all BODs or one specified BOD in the current process. If parallel processing is implemented, the BOD publishing will be interrupted in the parallel processes as well.</p> <p>For example: session Calculate Standard Cost publishes the ItemMasterBOD for each item for which the cost price is updated. If you don't need the ItemMasterBOD from this session, you can call this function in the Before Command hook of the main processing with iNoun = "ItemMasterCommonBOD". You can resume the publishing by calling function BOD.ResumePublishing().</p> <p>If a process can publish multiple BODs (e.g. SalesOrderBOD, CustomerReturnBOD and ShipmentBOD) and you want to interrupt the publishing of two BODs, you can call this function two times and specify iAllBods as false and iNoun as the BOD for which the publishing must be interrupted.</p> <p>Pre: N/A</p> <p>Post: Function BOD.ResumePublishing() must be called to resume the publishing.</p> <p>Output:</p> <table> <tr> <td>iAllBods</td><td>- true: The publishing of all BODs in the current process is interrupted. false: The publishing of the specified BOD in the current process is interrupted.</td></tr> <tr> <td>iNoun</td><td>- The (protected) Noun for which the publishing must be interrupted. Example: ItemMasterCommonBOD. Mandatory if iAllBods is false. Not needed / ignored if iAllBods is true.</td></tr> <tr> <td>oExceptionMessage</td><td>- A message if the return value is not equal to 0. This message contains the root cause of the request failure.</td></tr> <tr> <td>oExceptionID</td><td>- An ID that refers to all error information if the return value is <> 0. Use the functions in Exception to get all relevant information.</td></tr> </table> <p>Return:</p> <table> <tr> <td>0</td><td>- The action to interrupt the publishing was set successfully.</td></tr> <tr> <td><> 0</td><td>- The action to interrupt the publishing can not be set.</td></tr> </table>	iAllBods	- true: The publishing of all BODs in the current process is interrupted. false: The publishing of the specified BOD in the current process is interrupted.	iNoun	- The (protected) Noun for which the publishing must be interrupted. Example: ItemMasterCommonBOD. Mandatory if iAllBods is false. Not needed / ignored if iAllBods is true.	oExceptionMessage	- A message if the return value is not equal to 0. This message contains the root cause of the request failure.	oExceptionID	- An ID that refers to all error information if the return value is <> 0. Use the functions in Exception to get all relevant information.	0	- The action to interrupt the publishing was set successfully.	<> 0	- The action to interrupt the publishing can not be set.
iAllBods	- true: The publishing of all BODs in the current process is interrupted. false: The publishing of the specified BOD in the current process is interrupted.												
iNoun	- The (protected) Noun for which the publishing must be interrupted. Example: ItemMasterCommonBOD. Mandatory if iAllBods is false. Not needed / ignored if iAllBods is true.												
oExceptionMessage	- A message if the return value is not equal to 0. This message contains the root cause of the request failure.												
oExceptionID	- An ID that refers to all error information if the return value is <> 0. Use the functions in Exception to get all relevant information.												
0	- The action to interrupt the publishing was set successfully.												
<> 0	- The action to interrupt the publishing can not be set.												

BOD.Publish

DLL:	tcextbodapi
	This function is available from KB1994284 .
Syntax:	<pre> long BOD.Publish(domain tcbod.name iNoun, domain tcmcs.tabl iRootTable, const string iActionCode(), long iEntityType, const string iEntityCode(), const string iDocumentId(), const string iProcessingAction(), ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID, ...) </pre>
Usage:	<p>Expl: This function publishes any BOD.</p> <p>Pre: Transaction handling is needed.</p> <p>Post: Transaction handling is needed: A commit or abort must be done.</p> <p>Input:</p> <ul style="list-style-type: none"> iNoun - Noun: Mandatory iRootTable - Root Table: Mandatory for master data BODs iActionCode - Action Code: Mandatory Possible values: "Add", "Change", "Delete", "Replace", "Canceled". iEntityType - Entity Type: Mandatory for transactional data BODs Possible values: 1 (Warehouse), 2 (Department), 3 (Project) iEntityCode - Entity Code: Mandatory for transactional data BODs Possible values: The warehouse, department or project. The Entity Type and Entity Code are used to determine the Tenant, AccountingEntity and Location. iDocumentId - Document ID: Mandatory iProcessingAction - Processing Action: Mandatory Possible values: "OnlyStage", "StageOrPublish", "OnlyPublish". <p>Variable arguments are Identifiers</p> <ul style="list-style-type: none"> - The first Identifier is Mandatory <p>Output: oExceptionMessage</p> <ul style="list-style-type: none"> - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID <p>oExceptionID</p> <ul style="list-style-type: none"> - An ID that refers to all error information. Use the functions in Exception to get all relevant information. <p>Return: 0</p> <ul style="list-style-type: none"> - BOD is published. <p>DALHOOKERROR</p> <ul style="list-style-type: none"> - Otherwise.

BOD.PublishLNMessage

DLL:	tcextbodapi This function is available from KB2040021 .
Syntax:	<pre>long BOD.PublishLNMessage(domain tcmcs.str30m iMessageType mb, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID, ...)</pre>
Usage:	<p>Expl: This function publishes the LnMessageBOD with a specific MessageType. The first three arguments are mandatory, in the given order. iMessageType can f.i. have value "PurchaseScheduleLine".</p> <p>The other arguments should be 'xml_elementname - xml_elementvalue' pairs, e.g.:</p> <pre>"Description", tfgld011.desc,</pre> <p>The number of input arguments can vary.</p> <p>The DocumentID is mandatory as one of the xml_element names:</p> <pre>"DocumentID", table.key1, "DocumentID", table.key2,</pre> <p>The maximum composed DocumentID_ID string length is 132. If the "ActionCode" is not set, the default "Add" is used. If "DisplayID" is not set the "DocumentID" is used to create the DisplayID.</p> <p>To create a user area node a UserAreaName, UserAreaType and UserAreaValue are mandatory. UserAreaDescription, UserAreaStartDate and UserAreaEndDate can also be used. --> In the function call, the same order must be used!</p> <p>Allowed values for UserAreaType are:</p> <ul style="list-style-type: none"> - "DateTimeType" - "IndicatorType" - "NumericType" - "StringType" <p>If an xml_elementname is not in the list of possible xml_elementnames, the xml_element value is added to the "MessageTypeDetails" node, e.g.:</p> <p>input arguments:</p> <pre>"MessageType" "TestType", "Element.1" field.1, "Element.2" field.2,</pre> <p>result node:</p> <pre><MessageTypeDetails> <TestTypeGroup> <Element.1>field.1</Element.1> <Element.2>field.2</Element.2> </TestTypeGroup> </MessageTypeDetails></pre> <p>xml_elementvalues should apply to the following rules: utc dates should be converted to string representation in ISO. e.g.: "EffectiveDateTime", utc.to.iso(datefield, UTC_ISO_Z) Use the english description associated with a specific value in an enumerated domain. e.g.: "TransactionCategory", enum.descr\$("tfgld.catg",</p>

	<pre> tfgld011.catg, "2") Attributes of an xml_element are reflected using an @ and must be placed directly under the xml_element on which they are related, e.g.: "PurchaseInvoiceAmount", "10.000", "PurchaseInvoiceAmount@currencyID", "EUR", <PurchaseInvoiceAmount currencyID="EUR">10.000 </PurchaseInvoiceAmount> Possible xml_element names: - "ActionCode" - "Authorization" - "Description" - "DocumentReference" - "DocumentReference_ID" - "DocumentReference_LineNumber" - "DocumentReference_ScheduleLineNumber" - "DisplayID" - "DistributionGroup_Contact" - "DistributionGroup_ContactGroup" - "DistributionGroup_Email" - "DistributionGroup_Person" - "DistributionGroup_PersonGroup" - "DocumentID" - "Message_Description" - "Message_ID" - "MessageType" - "Status_Code" - "Status_EffectiveDateTime" - "Status_ArchiveIndicator" - "UserAreaDescription" - "UserAreaEndDate" - "UserAreaName" - "UserAreaStartDate" - "UserAreaType" - "UserAreaValue" Pre: Transaction handling is needed. Post: Transaction handling is needed: A commit or abort must be done. Input: iMessageType: Mandatory Variable arguments are pairs of two arguments with name and value. At least one argument with name "DocumentID" is Mandatory. Output: oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information. Return: 0 - BOD is published. DALHOOKERROR - Error. </pre>
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BOD.ResumePublishing

DLL:	tcextbodapi	
	This function is available from KB2267552 .	
Syntax:	long BOD.ResumePublishing(<div><div><div>boolean</div><div>domain</div><div>ref</div><div>ref</div></div><div><div>tcbod.name</div><div>tcmcs.s999m</div><div>long</div></div><div><div>iAllBods,</div><div>iNoun,</div><div>oExceptionMessage mb,</div><div>oExceptionID)</div></div></div>	
Usage:	<div><div><div>Expl:</div><div>Pre:</div><div>Post:</div><div>Output:</div></div><div><div>This function resumes the publishing of all BODs or one specified BOD in the current process.</div><div>Function BOD.InterruptPublishing() should have been called to interrupt the publishing.</div><div>N/A</div><div><div><div>iAllBods</div><div>iNoun</div><div>oExceptionMessage</div><div>oExceptionID</div></div><div><div>- true: The publishing of all BODs in the current process is resumed. false: The publishing of the specified BOD in the current process is resumed. Value false is not allowed if function BOD.InterruptPublishing() was called with iAllBods as true.</div><div>- The (protected) Noun for which the publishing must be resumed. Mandatory if iAllBods is false. Not needed / ignored if iAllBods is true.</div><div>- A message if the return value is not equal to 0. This message contains the root cause of the request failure.</div><div>- An ID that refers to all error information if the return value is <> 0. Use the functions in Exception to get all relevant information.</div></div></div></div><div><div>Return:</div><div><div>0</div><div><> 0</div></div><div><div>- The action to resume the publishing was set successfully.</div><div>- The action to resume the publishing can not be set.</div></div></div></div>	

Public Interfaces for BDE

The following functions are available:

[BDE.ExecuteMethod](#)

BDE.ExecuteMethod

DLL:	tcextbdeapi
	This function is available from KB2061133 .
Syntax:	<pre> long BDE.ExecuteMethod(domain tcbod.name iBusinessObject, domain tcmcs.str30 iMethod, long long iXMLRequest, ref long oXMLResponse, ref long oXMLResult, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID) </pre>
Usage:	<p>Expl: This function executes a method for a specified public BDE.</p> <p>Pre: If the method to be executed updates the database, a db.retry.point() must have been set in the calling program.</p> <p>Post: If the method to be executed updates the database, a commit.transaction() must be done by the calling program. However, in case of a non-zero return value, an abort.transaction() must be done, otherwise updates may have been done partially, which, once committed, may cause significant data corruption.</p> <p>Input: iBusinessObject - The Business Object for which the method must be executed, e.g. "Item_v3". Mandatory</p> <p>iMethod - The method to be executed, e.g. "Create" or "Change". Mandatory</p> <p>iXMLRequest - XML structure with request. Mandatory</p> <p>Output: oXMLResponse - XML structure with response (if method is executed successfully)</p> <p>oXMLResult - XML structure with result (in case of error)</p> <p>oExceptionMessage - A message if the return value is not equal to 0. This message contains the root cause of the of the method failure.</p> <p>oExceptionID - An ID that refers to all error information. Use the functions in Exception to get the error messages. Note that more detailed error information is in oXMLResult.</p> <p>Return values:</p> <p>0 - method is executed successfully</p> <p>DALHOOKERROR - on errors</p>

Chapter 11 Public Interfaces for Project

Public Interfaces for ProjectEstimate

The following functions are available:

[ProjectEstimate.GenerateStructuralElements](#)

ProjectEstimate.GenerateStructuralElements

DLL:	tpextestapi
	This function is available from KB2220662 .
Syntax:	<pre> long ProjectEstimate.GenerateStructuralElements (domain tccprj iProject, domain tpest.vers iEstimateVersionFrom, domain tpest.vers iEstimateVersionTo, domain tpest.esid iEstimateStructureFrom, domain tpest.esid iEstimateStructureTo, domain tccpcp iCostComponentFrom, domain tccpcp iCostComponentTo, domain tpptc.cstl iExtensionFrom, domain tpptc.cstl iExtensionTo, domain tppdm.cspa iBudgetTopElement, boolean iUpdateFreeVersions, boolean iUpdateActualVersions, boolean iUpdateOnlyUsedStructures, ref domain tcmcs.s999m oExceptionMessage mb, ref long oExceptionID) </pre>
Usage:	<p>Expl: This function updates the Estimate Structures for a given Project and its Estimate Versions as in session "Generate Structural Elements" (tpestl220m000). The Structural Elements of the Estimate Structures are generated from the applicable sources like Activities, Elements, Cost Components, Extensions and User Defined Structures.</p> <p>Pre: This function has its own transaction management. There should be no pending logical transaction before calling this function.</p> <p>Post: There is no need to execute an abort or commit after calling this function, that is handled within the function.</p> <p>Input: iProject - Project: Mandatory iEstimateVersionFrom - Estimate Version From</p>

	<p>iEstimateVersionTo - Estimate Version To</p> <p>iEstimateStructureFrom - Estimate Structure From</p> <p>iEstimateStructureTo - Estimate Structure To</p> <p>iCostComponentFrom - Cost Component From Only relevant when Estimate Structures of type 'Cost Component' are selected.</p> <p>iCostComponentTo - Cost Component To Only relevant when Estimate Structures of type 'Cost Component' are selected.</p> <p>iExtensionFrom - Extension From Only relevant when Estimate Structures of type 'Extension' are selected.</p> <p>iExtensionTo - Extension To Only relevant when Estimate Structures of type 'Extension' are selected.</p> <p>iBudgetTopElement - Budget Top Element: Optional The Top Element for structures of type Element. Only relevant when only one Estimate Version is selected, and Estimate Structures of type 'Element' are selected.</p> <p>iUpdateFreeVersions - Update Free Versions: Mandatory Update Estimate Structures of Estimate Versions with Status 'Free'. Possible values: True : Update Free Versions False: Do not update Free versions</p> <p>iUpdateActualVersions - Update Actual Versions: Mandatory Update Estimate Structures of Estimate Versions with Status 'Actual'. Possible values: True : Update Actual Versions False: Do not update Actual Versions</p> <p>iUpdateOnlyUsedStructures - Update Only Used Structures: Mandatory Only update Estimate Structures which are used in an Estimate Version. Possible values: True : Update only Estimate Structures which are used in an Estimate Version False: Update all Estimate Structures</p> <p>Output:</p> <p>oExceptionMessage - The last message if the return value is not equal to 0. If more than one message is given, these are present in the oExceptionID</p> <p>oExceptionID - An ID that refers to all error information. Use the functions in Exception to get all relevant information.</p> <p>Return: 0 - Successful <> 0 - An error occurred</p>
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Chapter 12 Process Extensions

Process Extensions for HandlingUnitBuilding

The following process extension(s) is/are available:

[HandlingUnitBuilding.CustomShipmentLine](#)

HandlingUnitBuilding.CustomShipmentLine

Allows to perform additional structure updates after a handling unit is reused or filled up.

This process extension is available from [KB2086985](#).

Technical information for this process extension:

Usage:	<p>With this Process Extension, it is possible to implement modifications in the handling unit structure when a handling unit is linked to the shipment line as a result of picking inventory or (re)generation of handling units on a shipment line.</p> <p>Note: This process extension will be called after the handling unit has been linked to the shipment line. A handling unit can either be generated, filled-up (anonymous stock is put in an already existing handling unit) or reused (picked handling unit is reused, or part of a picked handling unit is reused).</p>
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To implement this process extension, you need to implement the following method(s):

whext.wmd0001.custom.shipment.line

Syntax:	<pre>long whext.wmd0001.custom.shipment.line(domain whinh.shpm i.shipment, domain tcpono i.shipment.line, domain whhuid i.handling.unit, boolean i.handling.unit.reused, ref domain tcmcs.str132m o.error.message.array() fixed mb)</pre>
Usage:	<p>Expl: This function can be implemented to influence the handling unit</p>

	<p>building process during creation of handling units for the given shipment line. This function will be called from the standard process just after a handling unit is linked to the given shipment line. If a handling unit is re-used from inventory (during picking / release outbound advice when picking is not in the outbound process), the flag <code>i.handling.unit.reused</code> will be set to true.</p> <p>Do not change the record buffers with the additional logic, or if required, store and restore the record buffer prior to changing records, or inserting new records.</p> <p>Error messages can be logged in the error message array. The messages that are to be logged should be started with a @. Implementation note: it is wise to start the message with a dedicated hard coded string, so it is clear to the end user that the message logged is set in the Extension.</p> <p>Pre: NA Post: NA Input: <code>i.shipment</code> - shipment <code>i.shipment.line</code> - shipment line <code>i.handling.unit</code> - handling unit <code>i.handling.unit.reused</code> - picked handling unit is reused Output: <code>o.error.message.array()</code> Return: 0/DALHOOKERROR</p>
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Process Extensions for IntrastatTransaction

The following process extension(s) is/are available:

[IntrastatTransaction.CheckBlockedForReporting](#)

IntrastatTransaction.CheckBlockedForReporting

Check whether, at adding Intrastat Transaction, the status must be set to Blocked for Reporting.

This process extension is available from [KB3549440](#).

Technical information for this process extension:

Usage:	<p>With this Process Extension, it is possible to have additional checks before an Intrastat Transaction record is written, to set the status 'Blocked for Reporting' at creating an Intrastat Transaction.</p>
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To implement this process extension, you need to implement the following method(s):

lpext.ita0001.check.intrastat.transaction.blocked.for.reporting

Syntax:	<pre>long lpext.ita0001.check.intrastat.transaction.blocked.for.reporting(ref boolean o.blocked.for.reporting)</pre>
Usage:	<p>Expl:</p> <p>Use this method to check whether, at adding Intrastat Transaction record, the status must be set to "Blocked for Reporting".</p> <p>At moment of adding an Intrastat Transaction, LN will do checks first. Only if the Intrastat Transaction status is not set to "Blocked for Reporting" according to the standard logic in LN, this method in the Process Extension is called. In this method, own checks can be implemented and the variable o.blocked.for.reporting can be set. If the variable is set to false, the Intrastat Transaction status will not be changed. Otherwise, the status will be set to "Blocked for Reporting".</p> <p>Fields that can be used in this process extension: Although the Intrastat Transaction is about to be added and not yet committed, the Intrastat Transaction fields from lpita360 table are already available.</p> <p>Note that dal messages set in this function will be ignored by the standard.</p> <p>-----</p> <p>Start of Example of Implementation Pseudocode:</p> <p>Hook: Declarations</p> <pre>table tlpita360 * Intrastat Transactions</pre> <p>Hook: lpext.ita0001.get.intrastat.transaction.blocked.for.reporting</p> <pre>function extern long lpext.ita0001.get.intrastat.transaction.blocked.for.reporting(ref boolean o.blocked.for.reporting) { domain <domain> field.value * Default value is set to False. o.blocked.for.reporting = false select cisli310.<field>:field.value from cisli310 where cisli310._index1 = { :lpita360.fcmp, :lpita360.tran, :lpita360.idoc, :lpita360.line) as set with 1 rows selectdo ***** * If customized criteria are met * so the Intrastat transaction status * is set to "Blocked for Reporting". ***** if field.value = <customized criteria> then o.blocked.for.reporting = true endif</pre>

	<pre> endselect return(0) } End of Example of Implementation ----- Pre: N.A. Post: N.A. Input: N.A. Output: o.blocked.for.reporting - Indicates whether the Intrastat Transaction record status must be set to "Blocked for Reporting". Return: 0 - Success <> 0 - Returning a value <> 0 will abort the creation of Intrastat Transactions. </pre>
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Process Extensions for Invoice

The following process extension(s) is/are available:

[Invoice.CustomComposingCriteriaMet](#)

Invoice.CustomComposingCriteriaMet

Determines whether billable line should be composed in the current invoice number or not.

This process extension is available from [KB2305642](#).

Technical information for this process extension:

Usage:	<p>With this Process Extension, it is possible to have custom composing criteria defined by customer/extender to check whether the current billable line should be composed in the current invoice or not. If this Process Extension returns false then program will look for the next available invoice number and if available then this process extension is called again. If no invoice number is available then a new invoice number will be created and this process extension will not be called again.</p>
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To implement this process extension, you need to implement the following method(s):

ciext.sli0003.invoice.custom.composing.criteria.met

Syntax:	<pre>long ciext.sli0003.invoice.custom.composing.criteria.met(ref boolean o.custom.composing.criteria.met)</pre>
Usage:	<p>Expl:</p> <p>Use this method to check your own defined composing criteria, whether the current billable line should be composed in the current invoice number or not.</p> <p>At the time of composing of billable lines together, LN performs its own check to determine whether the lines can be composed together based on the standard composing criteria logic. Only when standard logic in LN allows the current billable line to be composed together in the current invoice, this method in the Process Extension is called.</p> <p>Default value of "o.custom.composing.criteria.met" is True.</p> <p>In this method, own checks can be implemented and the variable o.custom.composing.criteria.met can be set. If the variable is set to false, then the current billable line will not be composed in the current invoice but then it will look for the next available invoice number and if available then this process extension is called again. If no invoice number is available then a new invoice number will be created and this process extension will not be called again. If the variable is set to true then the current billable line will be added in the current invoice number.</p> <p>Fields that are available to be used in this Process Extension:</p> <ul style="list-style-type: none"> - All fields of table: Billable lines (cisli810) - All fields of table: Although the Invoice is not yet committed, the Invoice Header (cisli305) fields are already available. The Invoice header key fields can be used to read other tables like Invoice Lines (cisli310) or Invoice Lines - Additional Fields (cisli311). <p>Note:</p> <ol style="list-style-type: none"> 1) Dal messages set in this function will be ignored by the standard. 2) User must use bind variables when they read data, otherwise the standard flow may be affected. 3) External variables that are available to be used in this Process. <p>-----</p> <p>Start of Example of Implementation</p> <p>Requirement - Each Packing slip should be composed separately in a new invoice number.</p> <p>Solution - Packing slip is not available in the invoicing method to make it one of the standard composing criteria. So Customer can use this process extension to make it one of the custom composing criteria.</p> <p>Packing slip is available on the Billable line and is available in the Invoice line Additional Fields (cisli311).</p> <p>Pseudocode -</p>

Hook: Declarations

```
table tcisli305      |* Invoice Header
table tcisli810     |* Billable Lines
```

Hook: ciext.sli0003.invoice.custom.composing.criteria.met

```
function extern long
ciext.sli0003.invoice.custom.composing.criteria.met(
    ref boolean o.custom.composing.criteria.met)
{
    domain cisli.fldv2      field.value      fixed
    domain cisli.fldc      field.code       fixed

    field.code = "PKSP"

    |* Default value is set to True.
    o.custom.composing.criteria.met = true

    select cisli311.fldv:field.value
    from   cisli311
    where  cisli311._index1 =
                                {:cisli305.sfcp,
                                :cisli305.tran,
                                :cisli305.idoc}
    and    cisli311.fldc = :field.code
    and    cisli311.fldv <> :cisli810.pksp
    as set with 1 rows
    selectdo
        |*****
        |* If different Packing Slip is
        |* available in the invoice then the
        |* current billable line should not be
        |* inserted into given invoice number
        |* so the composing criteria does not
        |* meet here.
        |*****
        o.custom.composing.criteria.met = false
    endselect

    return (0)
}
```

End of Example of Implementation

Pre: N.A.

Post: N.A.

Input: N.A.

Output: o.custom.composing.criteria.met -

Determines whether current billable line
should be composed in the current
invoice or not.

Return: 0

DALHOOKERROR

- Success
- When an error occurs during checking;
the invoice will not be composed
together.

Process Extensions for OutboundAdvice

The following process extension(s) is/are available:

[OutboundAdvice.SkipPrint](#)

OutboundAdvice.SkipPrint

Skips Printing of Outbound Advice.

This process extension is available from [KB2092284](#).

To implement this process extension, you can use the information below:

Usage:	<p>Process Extension OutboundAdvice.SkipPrint can be used to skip the printing of Outbound Advice.</p> <p>Sessions where this Process Extension can be implemented:</p> <ul style="list-style-type: none">- Print Outbound Advice (whinh4460m000) <p>Fields that are available to be used in this Process Extension:</p> <ul style="list-style-type: none">- All fields of tables:<ul style="list-style-type: none">- Outbound Advice (whinh225)- Outbound Order Lines (whinh220)
--------	--

Process Extensions for PaymentReceipt

The following process extension(s) is/are available:

[PaymentReceipt.CustomXMLHandling](#)

PaymentReceipt.CustomXMLHandling

Define custom elements for XML Payments/Receipts used at creating the XML file.

This process extension is available from [KB2109354](#).

Technical information for this process extension:

Usage:	<p>With this Process Extension, it is possible to define extra custom elements to be used in the XML Payment/Receipt Layout.</p>
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--	--

To implement this process extension, you need to implement the following method(s):

tfext.cmg0001.define.custom.payment.elements

Syntax:	<pre>long tfext.cmg0001.define.custom.payment.elements(ref long o.number.of.elements, ref domain tcmcs.st12 o.custom.element.codes() fixed, ref domain tcmcs.str132m o.custom.element.descriptions() fixed mb, ref domain tfcmg.xttp o.custom.element.data.types())</pre>
Usage:	<p>Expl:</p> <p>Use this method to define extra custom defined elements to be used in the XML Payment layout and file. These custom element codes must start with "8" or "9"; other defined element codes will be ignored.</p> <p>Mapping a custom element to a Remittance Related XML Tag, only the custom elements starting with "8" can be used. The custom elements starting with "9" can only be used for mapping to non-remittance related XML Tags.</p> <p>The custom defined elements can then be used for mapping to an XML attribute in session XML Payment/Receipt Layout Lines (tfcmg0125m000).</p> <p>If a custom defined element is mapped, during building the XML file, a value must be retrieved for the element. For that, the following method must be used:</p> <pre>tfext.cmg0001.get.value.for.custom.payment.element</pre> <p>-----</p> <p>Start of Example of Implementation</p> <pre>long length.element.code long length.element.description long elem.nr long dummy.long dummy.long = rdi.domain.string(domainof(o.custom.element.codes), length.element.code, dummy.long) dummy.long = rdi.domain.string(domainof(o.custom.element.descriptions), length.element.description, dummy.long) elem.nr = 0 ***** * We will add 2 custom elements. ***** o.number.of.elements = 2 if alloc.mem(o.custom.element.codes, length.element.code, o.number.of.elements) +</pre>

	<pre> alloc.mem(o.custom.element.descriptions, length.element.description, o.number.of.elements) + alloc.mem(o.custom.element.data.types, o.number.of.elements) <> 0 then return (DALHOOKERROR) endif ***** * Add the element Name for the Pay-to BP ***** elem.nr = elem.nr + 1 o.custom.element.codes(1, elem.nr) = "910210000000" o.custom.element.descriptions(1, elem.nr) = "Composed Payments/Pay-to Business Partner/Name" o.custom.element.data.types(elem.nr) = tfcmg.xttp.string ***** * Add the element Transaction Amount Positive ***** elem.nr = elem.nr + 1 o.custom.element.codes(1, elem.nr) = "911200000000" o.custom.element.descriptions(1, elem.nr) = "Composed Payments/Transaction Amount Positive" o.custom.element.data.types(elem.nr) = tfcmg.xttp.decimal return(0) End of Example of Implementation ----- In above example, a custom element is added to influence the transaction amount in the file (i.e. making the transaction amount positive); note that this impacts the control amount in the file and thus a custom element is needed as well to determine the control amount in the extension. Pre: N.A. Post: N.A. Input: N.A. Output: o.number.of.elements - Number of additional custom payment elements o.custom.element.codes - Array with element codes. The element code must start with a "9". Maximum of 12 characters. E.g. "910100000000". o.custom.element.descriptions - Array with descriptions of the element codes. Maximum of 132 characters. o.custom.element.data.types - Array with data types of the element code. Data type should be one of the following values: tfcmg.xttp.string (String) tfcmg.xttp.date (Date) tfcmg.xttp.utc (UTC Date) tfcmg.xttp.decimal (Decimal Number) tfcmg.xttp.bool (Boolean) Return: 0 - Success </pre>
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	DALHOOKERROR	- When an error occurs in defining the custom elements.
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tfext.cmg0001.define.custom.receipt.elements

Syntax:	<pre> long tfext.cmg0001.define.custom.receipt.elements(ref long o.number.of.elements, ref domain tcmcs.st12 o.custom.element.codes() fixed, ref domain tcmcs.str132m o.custom.element.descriptions() fixed mb, ref domain tfcmg.xttp o.custom.element.data.types()) </pre>
Usage:	<p>Expl:</p> <p>Use this method to define extra custom defined elements to be used in the XML Receipt layout and file. These custom element codes must start with "8" or "9"; other defined element codes will be ignored.</p> <p>Mapping a custom element to a Remittance Related XML Tag, only the custom elements starting with "8" can be used. The custom elements starting with "9" can only be used for mapping to non-remittance related XML Tags.</p> <p>The custom defined elements can then be used for mapping to an XML attribute in session XML Payment/Receipt Layout Lines (tfcmg0125m000).</p> <p>If a custom defined element is mapped, during building the XML file, a value must be retrieved for the element. For that, the following method must be used:</p> <pre>tfext.cmg0001.get.value.for.custom.receipt.element</pre> <p>An example implementation is given in the method <code>tfext.cmg0001.define.custom.payment.elements</code>, which is likely same.</p> <p>Pre: N.A. Post: N.A. Input: N.A. Output: <code>o.number.of.elements</code> - Number of additional custom receipt elements <code>o.custom.element.codes</code> - Array with element codes. The element code must start with a "9". Maximum of 12 characters. E.g. "910900000000". <code>o.custom.element.descriptions</code> - Array with descriptions of the element codes. Maximum of 132 characters. <code>o.custom.element.data.types</code> - Array with data types of the element code. Data type should be one of the following values: <code>tfcmg.xttp.string</code> (String) <code>tfcmg.xttp.date</code> (Date) <code>tfcmg.xttp.utc</code> (UTC Date) <code>tfcmg.xttp.decimal</code> (Decimal Number) <code>tfcmg.xttp.bool</code> (Boolean)</p>

	Return: 0 DALHOOKERROR	- Success - When an error occurs in defining the custom elements.
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tfext.cmg0001.get.value.for.custom.payment.element

Syntax:	<pre>domain tcmcs.s999m tfext.cmg0001.get.value.for.custom.payment.element(domain tcncmp i.payment.company, domain tcmcs.st12 i.custom.element.code, domain tccwoc i.accounting.office)</pre>																																				
Usage:	<p>Expl:</p> <p>Use this method to get a value for the defined custom payment element code during the creation of the Payment XML File.</p> <p>The custom elements must be defined with the following method: tfext.cmg0001.define.custom.payment.elements</p> <p>Following tables are current when this extension is triggered (during creation of the XML Bank File):</p> <table> <tr><td>tccom000</td><td>Implemented Software Components (Companies)</td></tr> <tr><td>tccom100</td><td>Business Partners</td></tr> <tr><td>tccom115</td><td>Bank Accounts by Pay-by Business Partner</td></tr> <tr><td>tccom125</td><td>Bank Accounts by Pay-to Business Partner</td></tr> <tr><td>tccom130</td><td>Addresses</td></tr> <tr><td>tccom139</td><td>Cities by Country</td></tr> <tr><td>tcmcs002</td><td>Currencies</td></tr> <tr><td>tcmcs010</td><td>Countries</td></tr> <tr><td>tcmcs029</td><td>Business Partner Types</td></tr> <tr><td>tcmcs046</td><td>Languages</td></tr> <tr><td>tcmcs143</td><td>States/Provinces</td></tr> <tr><td>tfcmg001</td><td>Bank Relations</td></tr> <tr><td>tfcmg003</td><td>Payment/Receipt Methods</td></tr> <tr><td>tfcmg009</td><td>Financial Institutions</td></tr> <tr><td>tfcmg011</td><td>Bank Branches</td></tr> <tr><td>tfcmg103</td><td>Composed Payments</td></tr> <tr><td>tfcmg002</td><td>Reasons for Payment</td></tr> <tr><td>tfcmg025</td><td>Payment/Receipt XML Layout Details</td></tr> </table> <p>The below table is current only for Remittance Related elements: tfcmg101 Payment/Trade Notes Payable Advice</p> <p>-----</p> <p>Start of Example of Implementation</p> <pre>domain tcnama name.of.bp domain tfgld.amnt composed.amount name.of.bp = "" composed.amount = 0.0 on case i.custom.element.code case "910210000000": * Name of Composed Pay-to BP get.var(pid, "tccom100.nama", name.of.bp)</pre>	tccom000	Implemented Software Components (Companies)	tccom100	Business Partners	tccom115	Bank Accounts by Pay-by Business Partner	tccom125	Bank Accounts by Pay-to Business Partner	tccom130	Addresses	tccom139	Cities by Country	tcmcs002	Currencies	tcmcs010	Countries	tcmcs029	Business Partner Types	tcmcs046	Languages	tcmcs143	States/Provinces	tfcmg001	Bank Relations	tfcmg003	Payment/Receipt Methods	tfcmg009	Financial Institutions	tfcmg011	Bank Branches	tfcmg103	Composed Payments	tfcmg002	Reasons for Payment	tfcmg025	Payment/Receipt XML Layout Details
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tfcmg003	Payment/Receipt Methods																																				
tfcmg009	Financial Institutions																																				
tfcmg011	Bank Branches																																				
tfcmg103	Composed Payments																																				
tfcmg002	Reasons for Payment																																				
tfcmg025	Payment/Receipt XML Layout Details																																				

	<pre> return(name.of.bp) case "911200000000": /* Transaction Amount Composed Payment (Positive) /* Return always a POSITIVE value of the Amount field get.var(pid, "tfcmg103.amnt", composed.amount) return(trim\$(sprintf\$("%@ZZZZZZZZZZZZZZ9V.99@" , abs(composed.amount)))) default: break endcase return("") End of Example of Implementation ----- Pre: N.A. Post: N.A. Input: i.payment.company - Payment Company i.custome.element.code - The custom element code mapped to an XML attribute. i.accounting.office - Accounting Office. Output: N.A. Return: String with the value of the custom payment element. </pre>
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tfext.cmg0001.get.value.for.custom.receipt.element

Syntax:	<pre> domain tcmcs.s999m tfext.cmg0001.get.value.for.custom.receipt.element(domain tcncmp i.receipt.company, domain tcmcs.st12 i.custom.element.code, domain tccwoc i.accounting.office) </pre>																								
Usage:	<p>Expl:</p> <p>Use this method to get a value for the defined custom receipt element code during the creation of the Payment XML File.</p> <p>The custom elements must be defined with the following method: tfext.cmg0001.define.custom.receipt.elements</p> <p>Following tables are current when this extension is triggered (during creation of the XML Bank File):</p> <table> <tr><td>tccom000</td><td>Implemented Software Components (Companies)</td></tr> <tr><td>tccom100</td><td>Business Partners</td></tr> <tr><td>tccom115</td><td>Bank Accounts by Pay-by Business Partner</td></tr> <tr><td>tccom125</td><td>Bank Accounts by Pay-to Business Partner</td></tr> <tr><td>tccom130</td><td>Addresses</td></tr> <tr><td>tccom139</td><td>Cities by Country</td></tr> <tr><td>tcmcs002</td><td>Currencies</td></tr> <tr><td>tcmcs010</td><td>Countries</td></tr> <tr><td>tcmcs029</td><td>Business Partner Types</td></tr> <tr><td>tcmcs046</td><td>Languages</td></tr> <tr><td>tcmcs143</td><td>States/Provinces</td></tr> <tr><td>tfcmg001</td><td>Bank Relations</td></tr> </table>	tccom000	Implemented Software Components (Companies)	tccom100	Business Partners	tccom115	Bank Accounts by Pay-by Business Partner	tccom125	Bank Accounts by Pay-to Business Partner	tccom130	Addresses	tccom139	Cities by Country	tcmcs002	Currencies	tcmcs010	Countries	tcmcs029	Business Partner Types	tcmcs046	Languages	tcmcs143	States/Provinces	tfcmg001	Bank Relations
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tcmcs046	Languages																								
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tfcmg003	Payment/Receipt Methods
tfcmg009	Financial Institutions
tfcmg011	Bank Branches
tfcmg027	Direct Debit Mandates
tfcmg403	Composed Direct Debits
tfcmg025	Payment/Receipt XML Layout Details

The below table is current only for Remittance Related elements:

tfcmg401	Direct Debit Advice
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An example implementation is given in the method
 tfext.cmg0001.get.value.for.custom.payment.element, which is
 likely same.

Pre: N.A.
 Post: N.A.
 Input: i.receipt.company - Receipt Company
 i.custome.element.code - The custom element code mapped to
 an XML attribute.
 i.accounting.office - Accounting Office.
 Output: N.A.
 Return: String with the value of the custom receipt element.

Process Extensions for Procurement

The following process extension(s) is/are available:

Procurement.DefaultPurchaseOffice

Procurement.DefaultPurchaseOffice

Determine customer specific default Purchase Office for Procurement.

This process extension is available from [KB2155811](#).

Technical information for this process extension:

Usage:	<p>With this Process Extension, it is possible to set a customer determined purchase office from an extension to a value other than the defaulted value based on LN logic .</p> <p>This purchase office (if valid) is then used in all flows where a purchase office is defaulted.</p>
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To implement this process extension, you need to implement the following method(s):

tdext.pur0001.get.customer.determined.default.purchase.office

Syntax:	<pre> long tdext.pur0001.get.customer.determined.default.purchase.office(domain tcmcs.str8 i.defaulting.origin, domain tccwoc i.purchase.office.from.standard.logic, domain tcomm.grid i.enterprise.unit, domain tccom.bpid i.buy.from.business.partner, domain tccom.bpid i.ship.from.business.partner, domain tcitem i.item, domain tcncmp i.logistic.company, domain tcsite i.site, domain tccwar i.warehouse, ref domain tccwoc o.purchase.office) </pre>	
Usage:	<p>Expl: Use this method to get a customer determined default purchase office from an extension. This office will be used in Procurement.</p> <p>The standard logic in LN determines the purchase office from master data like enterprise unit, item data or user profile.</p> <p>Using this process extension, the defaulted value can be changed to another value.</p> <p>Note:</p> <ol style="list-style-type: none"> 1. The input arguments can be used to determine the option. 2. LN will check if the provided default is valid. 3. The purchase office defaulted based on standard LN logic will overrule the selected office from the extension, otherwise standard logic may fail. <p>Pre: NA Post: NA Input: i.defaulting.origin - Defaulting Origin,</p> <p>Possible Values:</p> <ul style="list-style-type: none"> tdpur100 - RFQ tdpur200 - Purchase Requisition tdpur300 - Purchase Contract tdpur310 - Purchase Schedule tdpur400 - Purchase Order Empty - Generation of a purchase order / schedule via 'generate purchase order/schedule flows' when e.g., calling from other packages (Project, Service, Warehousing, etc.). <p>i.purchase.office.from.standard.logic - As defaulted under the standard logic</p> <p>i.enterprise.unit - Enterprise Unit</p> <p>i.buy.from.business.partner - Buy-from Business Partner</p> <p>i.ship.from.business.partner - Ship-from Business Partner</p> <p>i.item - Item</p> <p>i.logistic.company - Logistic Company</p> <p>i.site - Site</p> <p>i.warehouse - Warehouse</p> <p>Output: o.purchase.office - The purchase office determined by the extension.</p> <p>Return: 0 - Success DALHOOKERROR - When an error occurs in the</p>	

	determination of the purchase office.
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Process Extensions for ProjectPCS

The following process extension(s) is/are available:

[ProjectPCS.SkipClose](#)

ProjectPCS.SkipClose

Project PCS Skip Close of Project.

This process extension is available from [KB2220251](#).

Technical information for this process extension:

Usage:	With this process extension, the Project close functionality can be controlled for specific Main Projects, Sub Projects & Single Projects.
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To implement this process extension, you need to implement the following method(s):

tiext.pcs0001.project.pcs.skip.close

Syntax:	<pre>long tiext.pcs0001.project.pcs.skip.close(ref boolean o.skip.close, ref string o.message())</pre>
Usage:	<p>Expl: This function is called in the process of Closing Projects:</p> <ul style="list-style-type: none"> - Main Projects and Structures - Sub Projects - Single Projects <p>To decide if the process must be skipped for a specific Closing Project Type. A message may be returned, to present information about the decision to the user.</p> <p>When this function is called all fields of tables:</p> <ul style="list-style-type: none"> - General Project Data (tipcs020) - Project Details (tipcs030) <p>are current.</p> <p>Pre: NA</p>

Syntax:	<code>boolean tiext.pcs0001.project.pcs.skip.close.implemented()</code>
Usage:	<p>Expl: This function checks if the process extension ProjectPCS.SkipClose is implemented.</p> <p>pre: N.a.</p> <p>Post: N.a.</p> <p>Input: N.a.</p> <p>Output: N.a.</p> <p>Return: true/false</p>

Usage:	<p>Process Extension PurchaseOrderLine.SkipPrintPurchaseOrderReminder can be used to skip specific Purchase Order Lines when printing Purchase Order Reminders.</p> <p>Sessions where this Process Extension can be implemented:</p> <ul style="list-style-type: none">- Print Purchase Order Reminders (tdpur4403m000) <p>Fields that are available to be used in this Process Extension:</p> <ul style="list-style-type: none">- All fields of table Purchase Order Lines (tdpur401)
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	<p>Pseudocode:</p> <p>Below you can find an example:</p> <p>Hook: Declarations</p> <pre> table ttdpur401 Hook: ext.skip function extern boolean ext.skip() { if <condition on tdpur401 = true> then return(true) endif return (false) } </pre>
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Process Extensions for PurchaseSelfBilledInvoice

The following process extension(s) is/are available:

[PurchaseSelfBilledInvoice.CustomCompose](#)

PurchaseSelfBilledInvoice.CustomCompose

Define a custom composing order for Purchase Self-Billing.

This process extension is available from [KB2064131](#).

Technical information for this process extension:

Usage:	<p>With this Process Extension, it is possible to set an own custom compose criteria in the Self-Billing Method.</p> <p>The Purchase Self-Billing (tfacp2290m000) process will compose the invoices based on the defined custom composing criteria.</p>
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To implement this process extension, you need to implement the following method(s):

tfext.acp0001.set.custom.composing.fields

Syntax: `long tfext.acp0001.set.custom.composing.fields(`

	ref	string	o.composing.fields())
Usage:	Expl:	<p>Use this method in order to use a Custom Compose Criteria for the Self-Billing Method.</p> <p>If an implementation of this method is done, and the string with composing fields is filled, and this method is returning 0, then in the Self-Billing Method (tcmcs0157m000) session the Compose Criteria (tcmcs057.cmpc) field can be set as Custom Compose.</p> <p>Via this method, one or more fields can be defined in a (comma separated) string. Those defined fields will be used as composing criteria for creating the Purchase Self-Billed Invoice in the Purchase Self-Billing (tfacp2290m000) process.</p> <p>In the Custom Compose flow, the standard Self-Billing will use the below pre-defined fields already for composing the Purchase Self-Billed Invoice (as these are invoice header attributes):</p> <pre>tfacp240.ifbp, tfacp240.otbp, tfacp240.ccur, tfacp240.vatc, tfacp240.ptyp, tfacp240.rtyp, tfacp240.mcfr</pre> <p>So, via this method, EXTRA composing attributes can be defined. Note that only attributes of below tables may be used:</p> <ul style="list-style-type: none"> - Order Data for Approval (tfacp240) - Purchase Consumptions (tfacp249) <p>Also Customer Defined Fields (CDF), added to the above mentioned tables (tfacp240 and tfacp249), can be used as extra composing fields.</p> <p>EXAMPLE:</p> <p>If the composing must also be done on Receipt (tfacp249.rcno) and an own CDF field (tfacp249.cdf_0001), this method should return:</p> <pre>o.composing.fields = "tfacp249.rcno, tfacp249.cdf_0001" return(0)</pre> <p>Pre: N.A. Post: N.A. Input: N.A. Output: o.composing.fields - String with composing composing fields (comma separated) Maximum string length is 500 (sb).</p> <p>Return: 0 - Success DALHOOKERROR - When an error occurs in setting the composing fields.</p>	

Process Extensions for SalesCheckInventory

The following process extension(s) is/are available:

[SalesCheckInventory.CustomSorting](#)

[SalesCheckInventory.DefaultInventoryShortageOption](#)

[SalesCheckInventory.SkipShortageLine](#)

SalesCheckInventory.CustomSorting

Define a customer specific 'Sort Lines By' for Sales Check Inventory.

This process extension is available from [KB2066317](#).

Technical information for this process extension:

Usage:	With this Process Extension, it is possible to set a customer defined sorting from an extension. This sorting will be used in 'Check Inventory for Sales Orders' (tdsls4217m000) when the 'Sort Lines By' option 'Customer Defined' is selected.
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To implement this process extension, you need to implement the following method(s):

tdext.sls0001.get.customer.defined.order.by

Syntax:	<code>long tdext.sls0001.get.customer.defined.order.by(ref string o.order.by.string.mb())</code>
Usage:	<p>Expl: Use this method to get a customer defined order by clause from an extension. This order by clause will be used in 'Check Inventory for Sales Orders' (tdsls4217m000) when the 'Sort Lines By' option 'Customer Defined' is selected.</p> <p>The standard order by clauses used by the 'Sort Lines By' are:</p> <ul style="list-style-type: none"> - Order Date: " order by tds417.odat asc " - Customer Requested Date: " order by tds417.ddtc asc " - Planned Delivery Date: " order by tds417.ddta asc " <p>Using 'Customer Defined' option, an order by constructed by the extension could be, as an example:</p> <p>" order by tds417.cdf_0001 desc, tds417.odat asc "</p> <p>Note:</p> <ol style="list-style-type: none"> 1. Only attributes from table tds417 can be used, including customer defined fields. 2. Run time errors occur when specifying attributes from other

	tables or when wrong syntax is constructed.
Pre:	NA
Post:	NA
Input:	NA
Output:	o.order.by.string.mb - Maximum string length is 500. Multi byte attributes are allowed.
Return:	0 - Success
	DALHOOKERROR - When an error occurs in determination of the order by clause.

SalesCheckInventory.DefaultInventoryShortageOption

Determine customer specific default 'Automatic Inventory Shortage Option' for Sales Check Inventory.

This process extension is available from [KB2150032](#).

Technical information for this process extension:

Usage:	With this Process Extension, it is possible to set a customer determined automatic inventory option (enumerated value of domain tdsls.ssop) to a value other than the defaulted value based on LN Master Data (sales order type) from an extension. This option will be used in 'Check Inventory for Sales Orders' (tdsls4217m000) and any other process triggering the automatic inventory handling in Sales.
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To implement this process extension, you need to implement the following method(s):

tdext.sls0002.get.customer.determined.default.automatic.inventory.shortage.option

Syntax:	<pre>long tdext.sls0002.get.customer.determined.default.automatic.inventory.shortage.option(domain tdsls.koor i.document.type, domain tcorno i.document, domain tcpono i.line, domain tcpono i.sequence, domain tcpono i.component.sequence, domain tccotp i.order.type, domain tcitem i.item, boolean i.recheck.inventory.promised.line, domain tdsls.ssop i.automatic.inventory.shortage.option.from.master.data, ref domain tdsls.ssop o.automatic.inventory.shortage.option)</pre>
Usage:	<p>Expl: Use this method to get a customer determined default automatic inventory handling option from an extension. This option will be used in 'Check Inventory for Sales Orders' (tdsls4217m000) and any other process triggering the automatic inventory handling in</p>

	<p>Sales.</p> <p>The standard logic in LN determines the automatic inventory shortage handling option (enumerated value of domain tdsls.ssop) from the sales order type and is also determined by the item and if inventory is rechecked.</p> <p>Using this process extension, the defaulted value can be changed to another option of the existing options of the domain.</p> <p>As an example: the option defaulted by standard LN may be 'ATP - When Available' (tdsls.ssop.atp.fixed.wh). Based on logic in the extension, this value may be overruled for specific order lines by 'ATP - When Available - Single Delivery' (tdsls.ssop.del.date).</p> <p>Note:</p> <ol style="list-style-type: none"> 1. The input arguments can be used to determine the option. 2. Only values from domain tdsls.ssop can be used. 3. Run time errors occur when non-existing enumerated options of domain tdsls.ssop are provided; an empty value is not overruling the default value from the master data. 4. Standard LN logic may overrule the selected option, otherwise standard logic may fail. <p>Pre: NA</p> <p>Post: NA</p> <p>Input:</p> <table> <tr> <td>i.document.type</td><td>-</td><td>Sales Quote Line or Sales Order Line or Sales Order Line Component</td></tr> <tr> <td>i.document</td><td>-</td><td>Sales Quote or Sales Order</td></tr> <tr> <td>i.line</td><td>-</td><td>Sales Quote Line or Sales Order Line</td></tr> <tr> <td>i.sequence</td><td>-</td><td>Sales Quote Alternative or Sales Order Sequence</td></tr> <tr> <td>i.component.sequence</td><td>-</td><td>Sales Order Component Line</td></tr> <tr> <td>i.order.type</td><td>-</td><td>Sales Order Type</td></tr> <tr> <td>i.item</td><td>-</td><td>Sales Quote Line Item or Sales Order Line Item or Sales Order Component Item</td></tr> <tr> <td>i.recheck.inventory.promised.line</td><td>-</td><td>If inventory is being rechecked (True/False)</td></tr> <tr> <td>i.automatic.inventory.shortage.option.from.master.data</td><td>-</td><td>The option determined by standard LN.</td></tr> </table> <p>Output: o.automatic.inventory.shortage.option</p> <table> <tr> <td></td><td>-</td><td>The option determined by the extension.</td></tr> </table> <p>Return: 0</p> <table> <tr> <td>DALHOOKERROR</td><td>-</td><td>Success</td></tr> <tr> <td></td><td>-</td><td>When an error occurs in the determination of the inventory option.</td></tr> </table>		i.document.type	-	Sales Quote Line or Sales Order Line or Sales Order Line Component	i.document	-	Sales Quote or Sales Order	i.line	-	Sales Quote Line or Sales Order Line	i.sequence	-	Sales Quote Alternative or Sales Order Sequence	i.component.sequence	-	Sales Order Component Line	i.order.type	-	Sales Order Type	i.item	-	Sales Quote Line Item or Sales Order Line Item or Sales Order Component Item	i.recheck.inventory.promised.line	-	If inventory is being rechecked (True/False)	i.automatic.inventory.shortage.option.from.master.data	-	The option determined by standard LN.		-	The option determined by the extension.	DALHOOKERROR	-	Success		-	When an error occurs in the determination of the inventory option.
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SalesCheckInventory.SkipShortageLine

Skips Sales Order Inventory Shortage Lines during Sales Check Inventory.

This process extension is available from [KB2150032](#).

To implement this process extension, you can use the information below:

Usage:	<p>Process Extension SalesCheckInventory.SkipShortageLine can be used to skip Sales Order Inventory Shortage Lines during Sales Check Inventory.</p> <p>Note: Shortage lines can be present for Sales Order Lines and Sales Order Line Components. Sales Order Line Components are used when 'Advanced Kitting' is implemented and Component Handling of the sales order line is set to 'Component Lines'.</p> <p>Shortage Lines for Sales Quotes are not supported/handled in this flow.</p> <p>Session where this Process Extension can be implemented:</p> <ul style="list-style-type: none"> - Check Inventory Sales Orders (tds4217m000) <p>Fields that are available to be used in this Process Extension:</p> <ul style="list-style-type: none"> - Only the primary key fields of the Sales Order Inventory Shortage Lines (tds417) are current. These fields are: <ul style="list-style-type: none"> - tds417.orno - tds417.pono - tds417.sqnb - tds417.csqn - tds417.koor - Applicable values in this process are 'Sales Order Line' and 'Sales Order Line Component' <p>The Check Inventory Sales Orders process checks and rechecks (if applicable) the inventory for sales order lines and sales order component lines, based on shortage lines in table tds417. The primary key fields of this table are current and can e.g., be used to read data from the sales order (line) and also sales order component line in case of component handling to build skip conditions.</p> <p>External variables that are available to be used in this Process Extension:</p> <ul style="list-style-type: none"> - proc_ext_skip_shortage_line_rechecking [type: boolean]. <p>Supported values are:</p> <ul style="list-style-type: none"> - True - The process is rechecking inventory for (promised) lines. - False - The process is checking the inventory for lines. <p>Note: tables and external variables must also be declared in the Process Extension.</p> <p>Pseudocode:</p> <p>Below you can find an example how to handle the conditions for sales order lines and component lines.</p> <p>Hook: Declarations</p> <pre> table tds417 table tds401 table tds463 extern boolean proc_ext_skip_shortage_line_rechecking </pre> <p>Hook: ext.skip</p> <pre> function extern boolean ext.skip() </pre>
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	<pre>{ on case tdsls417.koor case tdsls.koor.sls.line: /* Sales Order Line read data using tdsls417.orno, tdsls417.pono, tdsls417.sqnb if <condition on the data read = true> then return(true) endif break case tdsls.koor.sls.line.comp: /* Sales Order Line Component read data using tdsls417.orno, tdsls417.pono, tdsls417.sqnb, tdsls417.csqn if <condition on the data read = true> then return(true) endif So in case of a component line, component lines can also be skipped based on tdsls401 data if the data is read. break default: break endcase return (false) }</pre>
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Process Extensions for SalesOrder

The following process extension(s) is/are available:

[SalesOrder.SkipReleaseToWarehousing](#)

SalesOrder.SkipReleaseToWarehousing

Skips Sales Order Lines and Sales Order Line Components when Releasing to Warehousing.

This process extension is available from [KB2070268](#).

To implement this process extension, you can use the information below:

Usage:	<p>Process Extension SalesOrder.SkipReleaseToWarehousing can be used to skip Sales Order Lines and Sales Order Line Components when Releasing to Warehousing.</p> <p>Note: Sales Order Line Components are used when 'Advanced Kitting' is implemented and Component Handling of the sales order line is set to 'Component Lines'.</p> <p>Sessions where this Process Extension can be implemented:</p> <ul style="list-style-type: none"> - Release Sales Orders to Warehousing (tds4246m000) - All sessions and processes that trigger the release of lines to Warehousing (like automatic processing logic). <p>Fields that are available to be used in this Process Extension:</p> <ul style="list-style-type: none"> - All fields of table Sales Order Lines (tds401) when releasing order lines or component lines. - All fields of table Sales Order Line Components (tds463) when releasing component lines. <p>External variables that are available to be used in this Process Extension:</p> <ul style="list-style-type: none"> - proc_ext_skip_rtw_so_line_type [type: string(20)]. <p>Supported values are:</p> <ul style="list-style-type: none"> - order_line - component_line <p>Note: tables and external variables must also be declared in the Process Extension.</p> <p>The sales order release to warehousing process releases sales order lines. In case of component handling (tds401.cphl = tdcphl.component.lines), sales order line is selected first and then the component lines are released.</p> <p>The sales order line table is tds401.</p> <p>The sales order line components table is tds463.</p> <p>So in case of component lines, skip conditions can be built both on current tds401 data and tds463 data as instructed below.</p> <p>The process extension must be applied to these two tables.</p> <p>Pseudocode:</p> <p>Below you can find an example how to handle the conditions for sales order lines and component lines.</p> <p>Hook: Declarations</p> <pre> table tds401 table tds463 extern string proc_ext_skip_rtw_so_line_type(20) </pre> <p>Hook: ext.skip</p> <pre> function extern boolean ext.skip() { on case proc_ext_skip_rtw_so_line_type case "order_line": if <condition on tds401 = true> then return(true) endif </pre>
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	<pre>So in case of order_line, component handling sales order lines can also be skipped based on tdsIs401 data. break case "component_line": if <condition on tdsIs463 = true> then return(true) endif AND / OR if <condition on tdsIs401 = true> then return(true) endif So in case of component_line, component lines can also be skipped based on tdsIs401 data. break default: break endcase return (false) }</pre>
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