

# Visual Advanced Production Scheduler (VAPS)

## API REFERENCE GUIDE

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Boyum IT Solutions GmbH  
Pascalstr. 17  
52078 Aachen  
Germany

Tel: +49 (2408) 141 0

Fax: +49 (2408) 141 33

Web: <https://www.boyum-solutions.com/>

## Table of contents

- Events ..... 2
  - OnBeforeTransfer events*..... 2
  - OnBeforeTransferMachineCenter ..... 2
  - OnBeforeTransferProdOrder ..... 2
  - OnBeforeTransferProdOrderLine ..... 2
  - OnBeforeTransferProdOrderRoutingLine ..... 3
  - OnBeforeTransferWorkCenter ..... 3
  - OnBeforeTransferWorkCenterGroup ..... 3
  - OnPostPublishSimulation()..... 4
  - On ProvideCustomReservationsForProdOrderLine..... 4
  - On ProvideProdOrderRoutingLineEditability ..... 4

## Events

### *OnBeforeTransfer events*

These events can be used to modify Business Central data before transferring them into our simulation data. Not only simple modifications are possible, but also complex ones such as the application of flowFields/Flowfilters and thus execution of self-created or already existing formulas. The changes will **not be saved** in the Business Central data.

The events in detail:

### OnBeforeTransferMachineCenter

This event occurs on loading a machine center

[IntegrationEvent(*/\*IncludeSender\*/false, /\*GlobalVarAccess\*/false*)]

**procedure** OnBeforeTransferMachineCenter(**var** pMachineCenterRecord: **Record** "Machine Center"; **var** pHandled: **Boolean**)

	Data type	Description
var pMachineCenterRecord	Record	The machine center to be loaded.
var pHandled	Boolean	The event will be handled if it returns true

### OnBeforeTransferProdOrder

This event occurs on loading a production order.

[IntegrationEvent(*/\*IncludeSender\*/false, /\*GlobalVarAccess\*/false*)]

**procedure** OnBeforeTransferProdOrder(**var** pProdOrderRecord: **Record** "Production Order"; **var** pHandled: **Boolean**)

	Data type	Description
var pProdOrderRecord	Record	The production order to be loaded.
var pHandled	Boolean	The event will be handled if it returns true

### OnBeforeTransferProdOrderLine

This event occurs on loading a production order line.

[IntegrationEvent(*/\*IncludeSender\*/false, /\*GlobalVarAccess\*/false*)]

**procedure** OnBeforeTransferProdOrderLine(**var** pProdOrderLineRecord: **Record** "Prod. Order Line"; **var** pHandled: **Boolean**)

	Data type	Description
var pProdOrderLineRecord	Record	The production order line to be loaded.
var pHandled	Boolean	The event will be handled if it returns true

## OnBeforeTransferProdOrderRoutingLine

This event occurs on loading a production order routing line.

[IntegrationEvent(*/\*IncludeSender\*/*false, */\*GlobalVarAccess\*/*false)]

**procedure** OnBeforeTransferProdOrderRoutingLine(var pProdOrderRoutingLineRecord: Record "Prod. Order Routing Line"; var pHandled: Boolean)

	Data type	Description
var pProdOrderRoutingLineRecord	Record	The production order routing line to be loaded.
var pHandled	Boolean	The event will be handled if it returns true

## OnBeforeTransferWorkCenter

This event occurs on loading a work center.

[IntegrationEvent(*/\*IncludeSender\*/*false, */\*GlobalVarAccess\*/*false)]

**procedure** OnBeforeTransferWorkCenter(var pWorkCenterRecord: Record "Work Center"; var pHandled: Boolean)

	Data type	Description
var pWorkCenterRecord	Record	The work center to be loaded.
var pHandled	Boolean	The event will be handled if it returns true

## OnBeforeTransferWorkCenterGroup

This event occurs on loading a work center group.

[IntegrationEvent(*/\*IncludeSender\*/*false, */\*GlobalVarAccess\*/*false)]

**procedure** OnBeforeTransferWorkCenterGroup(var pWorkCenterGroupRecord: Record "Work Center Group"; var pHandled: Boolean)

	Data type	Description
var pWorkCenterGroupRecord	Record	The work center group to be loaded.
var pHandled	Boolean	The event will be handled if it returns true

## OnPostPublishSimulation()

This event occurs after a simulation got published.

### Example:

```
[EventSubscriber(ObjectType::Codeunit, Codeunit::"NETVAPS IntegrationMgmt",
'OnPostPublishSimulation', "", false, false)]
local procedure handleOnPostPublishSimulation()
begin
//code to handle event
end;
```

## On ProvideCustomReservationsForProdOrderLine

This event occurs on creating and updating a simulation.

```
[IntegrationEvent(/*IncludeSender*/false, /*GlobalVarAccess*/false)]
```

**procedure** On ProvideCustomReservationsForProdOrderLine (**var** pSourceProdOrderLinePosition: **Text**; **var** pDestinationProdOrderLinesPositions: List of [Text]; **var** pHandled: **Boolean**)

	Data type	Description
var pSourceProdOrderLinePosition	Text	The production order line that is processed in the load and update process, in form of its position
var pDestinationProdOrderLinesPositions	List of [Text]	A list of the target production order lines that get linked to the source
var pHandled	Boolean	The event will be handled if it returns true

## On ProvideProdOrderRoutingLineEditability

This event occurs on starting and updating a simulation.

```
[IntegrationEvent(/*IncludeSender*/false, /*GlobalVarAccess*/false)]
```

**procedure** OnProvideProdOrderRoutingLineEditability (pClientGuid: Guid; pProdOrderRoutingLinePosition: Text; **var** pEditable: Boolean; **var** pHandled: Boolean)

	Data type	Description
pProdOrderRoutingLinePosition	Text	The production order routing line to be set to "not editable"
var pEditable	Boolean	The production order routing line will be set to "not editable" if it returns "false".
var pHandled	Boolean	The event will be handled if it returns "true".

**Example:**

All operations of work center 400 get "protected".

```
[EventSubscriber(ObjectType::Codeunit, Codeunit::"NETVAPS IntegrationMgmt",
'OnProvideProdOrderRoutingLineEditability', "", false, false)]

local procedure handleOnProvideProdOrderRoutingLineEditability(pClientGuid: Guid;
pProdOrderRoutingLinePosition: Text; var pEditable: Boolean; var pHandled: Boolean)
var
    _porlRecord: Record "Prod. Order Routing Line";
    _count: Integer;
begin
    _porlRecord.SetRange("Work Center No.", '400');
    _porlRecord.SetPosition(pProdOrderRoutingLinePosition);
    if _porlRecord.Find('=') then begin
        pEditable := false;
        pHandled := true;
    end;
end;
```