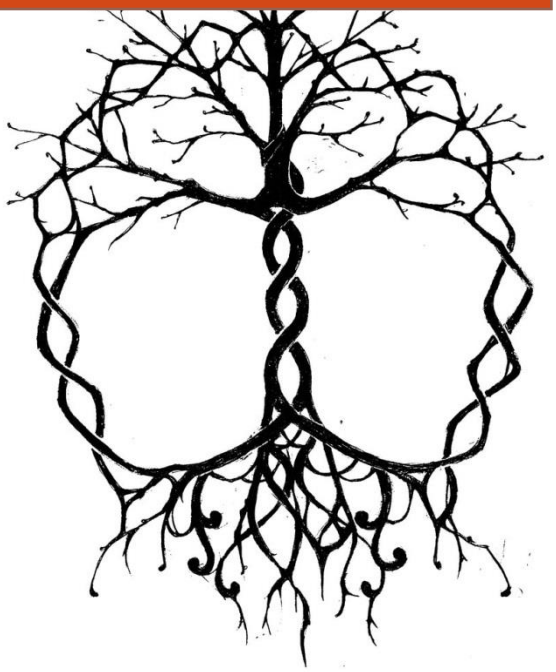
YggDrasil Components for Microsoft Dynamics Nav



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Overview

The YggDrasil Componets is delivered as a RoleTailored client control add-in for Microsoft Dynamics NAV 2013 R2. It includes a server-side object, a codeunit for data processing, and a sample page. The sample uses the Memopad control in a specific contact's comment page so that you can see how to integrate the visualization into other application scenarios.

You can use the Memopad to integrate the multiline text component into customer projects and your add-in solutions. No dedicated granule is required.

This white paper describes how to use Memopad in custom application scenarios. The guide starts with a high-level overview and then provides the steps to set it up for customer comment. It describes the supported user interactions and provides step-by-step information for setting up and installing custom application scenarios. It also describes how to use the Yggdrasil add-in.

YggDrasil Components

Redistribuable Components

- Memopad control add-in for the RoleTailored client.
  These files are used to add the Memopad Component on RoleTailored client pages and can be redistributed to all computers running the RoleTailored client.
  These files are located in the *Add-ins* folder of the RoleTailored client installation. By default, this folder is *C:\Program Files\Microsoft Dynamics NAV\71\RoleTailored Client\Add-Ins\Yggdrasil*.

- Server-side data processing components.

  The *Yggdrasil server* assembly and additional files are used for processing memopad data on the computer running Microsoft Dynamics NAV Server.

  By default, these files are located in the *C:\Program Files\Microsoft Dynamics NAV\71\Service\Add-ins\Yggdrasil* folder.

Installation and running the compoents

Quick installation guide

This procedure describes how to install the Memopad components and samples on a single computer running a three-tier installation of Microsoft Dynamics NAV with the demo database. The installation includes the following high-level steps:

- Run the Service setup *Servicesetup.exe* file to install the components on Service.
- Run the Clientsetup *clientsetup.exe* file to install the components on RoleTailored Clien.
- Import the *NavPad_DEMO.fob* file.
- Run codeunit 71000 (NavPad Management) once.
- Run page 71000 (Contact Remark) from Page Designer or from an action on another page.

Detailled installation guide

1. On the computer run Microsoft Dynamics Nav Service, run the ServiceSetup.msi file.
   By default the files are installed at :
   C:\Program Files\Microsoft Dynamics NAV\71\Service\Add-ins\Yggdrasil\

2. . On the computer with Microsoft Dynamics NAV, run the Client*Setup.msi* file.
   By default, the files on a 32-bit edition of Windows are installed at:
   C:\Program Files\Microsoft Dynamics NAV\71\RoleTailored\Add-ins\Yggdrasil\
   On a 64-bit edition of Windows, the files are installed at:
   C:\Program Files (x86)\Microsoft Dynamics NAV\71\RoleTailored\Add-ins\Yggdrasil\
3. In the Classic client, import the *NavPad_DEMO.fob* file.

   a. On the **Tools** menu, click **Object Designer**.

   b. On the **File** menu, click **Import**.

   c. Locate the *NavPad_DEMO.fob* file, and then click **Open**.

   d. If no conflicts are found, then click **Yes** to import all objects.

   e. In the **Import Objects** dialog box, click **OK**.

   The following objects are imported:
   - Codeunit 71000, NavPad Management. This codeunit performs generic data handling for the Memopad Component and can also be run to register the add-in.
   - Table 71000, Contact texts : The table store the comments input in the memopad.
   - Page 71000, Contatc Remark : This ample page uses the Memopad control add-in to display Contact Texts table data.
   - Page 71001, Contact Remark Sub : The subpage use a usual dynamics nav component (list) to display the Contact texts table data.
4. Run codeunit 71000 to register the Memopad add-in in the **Client Add-in** table.

   To manually register the Memopad control add-in, open the **Client Add-in** table, and then add a row that has the following values:
   - **Control Add-in Name**: Yggdrasil.Dynamics.AddIns.NavPadAddIns

- **Public Key Token**: d1eed33dd3edfc3a
- **Version** (optional): 1.0.0.0

  Note If you set a version number, then you must use 1.0.0.0. Otherwise, leave the field blank. If you use a different version number, then the control add-in will not work on the page.
- **Description** (optional): NavPad Editor

Memopad

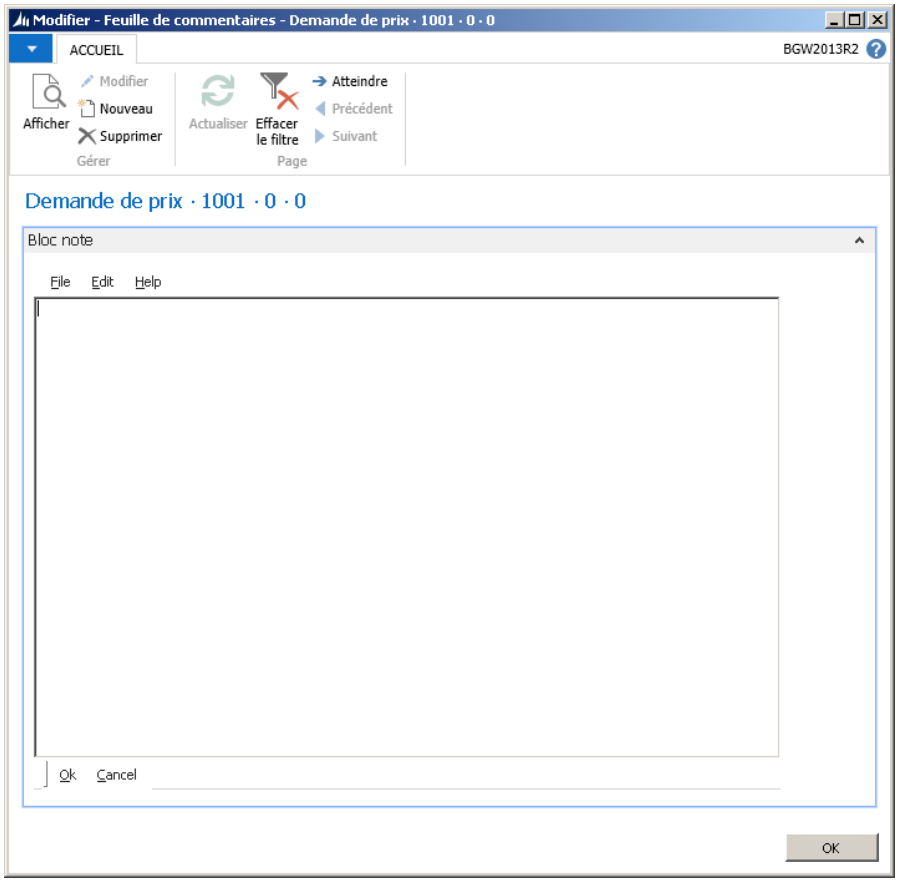
Sample

The *NavPad_DEMO.fob* file imports a codeunit for generic data handling and a sample page to demonstrate the Memopad in an application scenario.

Walkthrough : Using Memopad On Sales Quote Comment Page

In the previous procedures, you registered the Memopad control add-in in the database and enabled the sample page that runs the Memopad on specific page 71000, Contact Remark.

In this walkthrough, you will create a Memopad for a Sales Quote Comment page that will look similar to the following figure.



The Memopad component extracts data from the Sales Comment Line table. The comments are formatted on multiline text box.

When you click on “Ok” Button, the formatted text is saved into database.

Adding a field « separator »

First, you create a new field, named « separator » into « Sales Comment Line » Table. The field is used to manage the multiline text. Between two lines, this one must be separate by Space or Carriage Return.

a. In Object Designer, open Table 44 « Sales Comment Line ».
b. Add at the end, a new field with the following informations

Property Name	Value
Id	71000
Name	Separator
Data Type	Option
OprionString	,Space,Carriage Return

c. Save and compile the Table

Adding the control add-in to a page

You add a memopad control into an existing page. You use page 67, Sales Comment Sheet, from the demo database as a starting point.

1. In Object Designer, open page 67, Sales Comment Sheet.

2. At the end of the page, add a new group with the following informations.

Property Name	Value
Name	NavPad
Group Type	Group
CaptionML	ENU=NotePad;FRA=Bloc note

3. Add a new field, to set Control Add-in properties with hte following informations.

Property Name	Value
Name	navpadaddins
ShowCaption	No
ControlAddIn	Yggdrasil.Dynamics.AddIns.NavPadAddIns;PublicKeyToken=d1eed33dd3edfc3a

4. Change the type of the page, Set the PageType Property to Card
5. Change the visibility of Repeater Group, Set the Visible Property to False
6. Save and compile the page.

Populating the component with data

After you have updated the page, you must get data into the Memopad control add-in.
The codeunit 71000 NavPad Management collects information from the source table (Sales Comment Line) by a RecordRef.

1. In Page Designer, open page 67, Sales Comment Line.
2. In the C/AL code for the page :
   a. Create the following global variable.

Name	Data Type	SubType	Length
_NavPad	CodeUnit	NavPad Management	

   b. In the OnAfterGetCurrRecord Trigger, create the following local variables

Name	Data Type	SubType	Length
_recordref	RecordRef		
_SalesHeader	Record	Sales Header	

   c. Add the following code to the OnAfterGetCurrRecord on the page.

```
 _RecordRef.GETTABLE(Rec);
 _SalesHeader.”Document Type” := Rec.”Document Type”;
 _NavPad.Edit(CurrPage.navpadaddins, _recordref, FORMAT(_SaleHeader.”Document
Type”));
```

Note : for the update 5 of Dynamics NAV 2013 R2, the order of instanciation of triggers has changed.
The previous code must be added on AddInReady Trigger

Reacting to event from control add-in

Control add-ins can include events that occur when the user click on « Ok » button or Cancel Button.
Each actions on Memopad Control, which interact with Dynamics Nav 2013 R2, A specific Event occur of a page that contains the control add-in.
To handle event, you add code to the specific trigger of the page :

- « Ok » Button : AddInSave
- « Cancel » Button : AddInCancel

After you have collected data for the memopad, we will how to save the modification.
The codeunit 71000 NavPad Management save data from memopad Component to target table (Sales Comment Line) by a RecordRef.

1. In Page Designer, open page 67, Sales Comment Line.
2. In the C/AL code for the page :

   a. In the AddInSave Trigger, create the following local variables

Name	Data Type	SubType	Length
_recordref	RecordRef		

   b. Add the following code to the OnAfterGetCurrRecord on the page.

```
_RecordRef.GETTABLE(Rec);
_NavPad.Edit(CurrPage.navpadaddins, _recordref, TRUE);
```