# W05 – Creating Extensions

## Create a new extension from the ForNAV designer

1. Open the ForNAV designer. Open the settings menu and make sure the NAV Compatibility setting is set to the correct version;
2. Click the arrow under the New button and select either New Local Extension or New Sandbox Extension depending on your version of Microsoft Dynamics 365 Business Central;
3. Choose a folder and select ok. Click Yes to open the new extension in Visual Studio Code;
4. Open the app.json file. Enter a name and publisher for the extension;
5. Set the platform and application to 14.0.0.0;
6. Add the dependency for the ForNAV Report Pack:

{ "appId": "83326d6d-11f8-49fd-981a-6f266a7c8d81", "name": "Customizable Report Pack", "publisher": "ForNAV", "version": "4.0.0.0"}

1. Type CTRL + SHIFT + P to open the command prompt and select AL: Download Symbols;
2. Your extension is now ready to publish. Type CTRL + F5 to publish the extension without debugging.

## Create a new Sales Order report from a Header Line template

1. Open the ForNAV designer. Open the settings menu and make sure the NAV Compatibility setting is set to the correct version;
2. Click the New button and select Report Templates. Select the AL Extension version of the Header Line Template;
3. In the properties for the report set the Object No to 55030 and the Object Name to ForNAV Sales Order;
4. Open the properties for the Header Data Item. Change the Data Item Table to “Sales Header”;
5. Note the changes to the Data Item Table View;
6. Open the properties for the Line Data Item. Change the Data Item Table to “Sales Line”;
7. Note the changes to the Data Item Table View and the Data Item Link;
8. Improve the layout;
9. Select the Header Data Item and add Amount to the Calculated Fields;
10. Select Save, open the root folder for your extension and save your report as Report 55030 ForNAV Sales Order.al;
11. Close the ForNAV Designer and open the report in VS Code;
12. Add a caption and add an applicationarea and usagecategory to the report;
13. Your extension is now ready to publish. Type CTRL + F5 to publish the extension without debugging.

## Adding a temporary "Tracking Specification" table to the report. Write code to populate it.

1. Open the ForNAV designer. Open the settings menu and make sure the NAV Compatibility setting is set to the correct version;
2. Select Open and navigate to your extension root folder. Select the .al file of the report you want to edit and click open;
3. Right click the Line Data Item and select Insert Section > Data Item;
4. Set the Data Item Table for the new Data Item to Tracking Specification. Set the Temporary property to true;
5. Right click the TrackingSpecification Data Item and select Insert Section > Body;
6. Insert a table in the new Body with the fields ItemNo, LotNo, and SerialNo;
7. Save the report and close the ForNAV Designer. Open the report in VS Code;
8. Add “CodeUnit 55000 ForNAV GetTracking.al” to your extension;
9. Add the code from the W05 - AL Code to add.txt file to the report;
10. Your extension is now ready to publish. Type CTRL + F5 to publish the extension without debugging.
11. Add some Item Tracking lines to a Sales Order and use that Sales Order to preview the report.

## Add a button on the Sales Order Card to run the new report

1. Add a new file to your extension. Call it “PageExtension 55001 ForNAV W05 Sales Order.al”;
2. Type tpex in order to use the PageExtension snippet;
3. Set the ID to 55001, the Name to "ForNAV W05 Sales Order" and set extends to "Sales Order";
4. Delete all sections apart from the actions part;
5. In the actions part add the action code from W05 - AL Code to add.txt;
6. Your extension is now ready to publish. Type CTRL + F5 to publish the extension without debugging.
7. Open a Sales Order and select More Options ? Report to test your new Page Action.