

Local use - Baseline Analysis



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SAPEX allows you to extract SAP objects to a defined path within the SAP server.

Using this **local** approach, you can download all the SAP objects within the SAP server and later execute Kiuwan Local Analyzer.

- Please, visit [Manual Installation of SAP Extractor](#) for further instructions.

Overall procedure

The procedure to fully integrate the Kiuwan Solutions into your SAP system takes two main steps:

1. To install some Kiuwan utilities into your SAP system that will be used during the operation
 - a. Visit [Manual Installation of SAP Extractor](#) for further instructions.
2. Run the adequate procedures depending on your operative needs
 - a. Create and analyze application **Baselines**
 - b. Run automatically Kiuwan analyses on **Deliveries (Transport Orders)**



This section explains how to perform Baseline analyses.

To perform analyses on Deliveries (transport orders) go to [Local use - Resolved Deliveries](#)

Modeling ABAP code in the Kiuwan Solutions

Before describing the extraction and operative mechanisms, you should think of how to model the ABAP code into Kiuwan.

Kiuwan always works with the concept of application.

In Kiuwan terms, **an application is the analysis unit**, i.e. a set of source code files that has some functional meaning to you and needs to be analyzed as a whole.

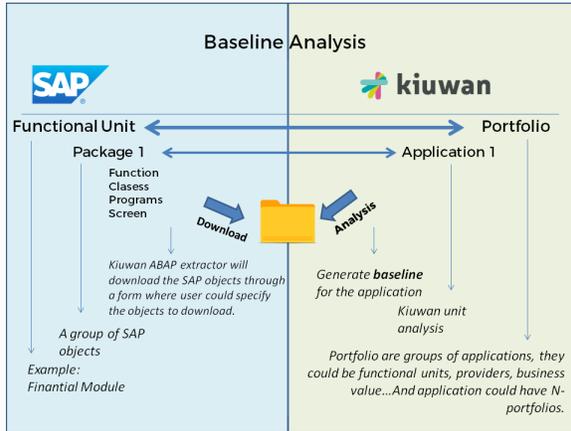
Once you define a Kiuwan application, you specify the source root directory, i.e. the directory that contains the source code files of that application. Kiuwan will analyze those source code files as a unit, providing comprehensive results.

Furthermore, you can always govern your applications by organizing them by **portfolios** that define the real dimensions that are important for you and your organization.

i There are as many ways to model that relationship as Kiuwan's users and organizations. Nevertheless, we suggest an approach that has been proven very useful and adequate in Kiuwan implantations on SAP systems.

This approach consists on **modeling a SAP package as a Kiuwan application**.

In this way, there is a direct relationship between SAP functional units and Kiuwan applications.



In this documentation you will find procedures to execute baseline and deliveries analyses, but please remember that explained procedures are based on mapping **SAP Package to Kiuwan Application**.

If this assumption is not applicable to your case, please [contact us](#).

Extract ABAP source code

i **SAPEX allows you to extract SAP objects to a defined path within the SAP server.**

The extraction mechanism will download SAP objects related to the SAP package they belong.

It will create a directory for every package where all the pertaining objects will be placed. As you will see below, you can define exactly which objects to extract.

As before mentioned, the approach is to model an SAP package as a Kiuwan application.

As there will be a directory for every downloaded package, you can model application names with the same names as the packages, and configure every app's source directory to the package directory.

IMPORTANT: the ABAP Code Extractor does not delete the previous content of an extraction directory. You need to delete it before a new extraction.

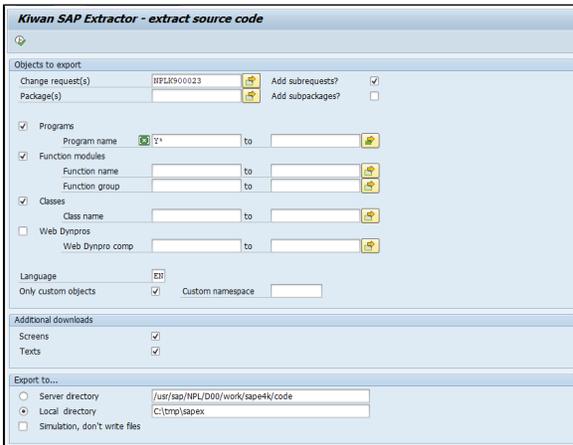
After the extraction finishes, you will have to run Kiuwan (in this step Kiuwan is not automatically invoked).

SAPEX presents the following sections:

- Objects to download
 - This section allows to filter the objects to download (Programs, Function modules, Classes and Web Dynpros)
- Additional downloads
 - This option allows to select to download also the screens and associated texts
- Export options

- Physical path where the extractor will download requested objects (if the directory does not exist the extractor will create it)

1. Run the program **ZKW_SAPEX_CODE** (using transaction **SA38**):



2. Objects to Export

- When extracting code associated with a change request/task:
 - Fill the **Change request(s)** parameter.
 - If the code for the child tasks should be included, enable **Add subrequests?**
- When extracting code associated with one or more package(s):
 - Fill the **Package(s)** parameter (it could be used for filtering when selecting by change request).
- Programs, Function modules, Classes** and **Web Dynpros** checks
 - Allows to include/exclude the matching code elements
 - Ranges may be used to filter by name the elements to export (leave empty for no filter).
- Language**
 - Is used to gather description text for the target element in the chosen language (but it does not alter the exported code).
- If **Only custom objects** is chosen:
 - Only items with names starting with 'Y' or 'Z' will be exported.
 - This pattern could be changed to a custom namespace (like '/MyOrg/') if needed.
 - Take care when deactivating the Only custom objects checkbox: A too-wide number of objects could be selected, in particular SAP code unrelated to the custom software

3. Additional downloads:

- choose exporting dynpro flow logic (**Screens**) or text-pools (**Texts**)

4. Export to..:

- select a SAP system directory (**Server directory**) or a **Local directory**.
- The **Simulation** checkbox allows you to test the export before storing files, to ensure that the selected elements are the intended ones.

5. Now click **Execute** or press **F8** to execute the program.

6. The exported items are displayed as follows:

Status	Type	Path	Name	Message
			Class / Interfaces	exported: 16 errors: 0, in 00:00:02
			Function groups	exported: 2 errors: 0, in 00:00:00
			Functions	exported: 6 errors: 0, in 00:00:01
			Programs	exported: 3 errors: 0, in 00:00:00
			TOTAL	exported: 27 errors: 0, in 00:00:03
	CLAS	ZKW_SAPEX/class	ZCL_IM_KW_BADI_REQ_CHECK	Imp. class for BAdI imp. ZKW_BADI_REQ_CHECK
			ZKWL_CL_ANALYSIS	Kiwan SAP Extractor - run Kiwan Local analyzer from SAP
			ZKW_CL_CLOCK	Kiwan SAP Extractor - timing helper
			ZKW_CL_CODE	Kiwan SAP Extractor - code extraction
			ZKWL_CL_CODE_FILE	Kiwan SAP Extractor - code file
			ZKW_CL_EXTRACTOR	Kiwan SAP Extractor - helper class
			ZKW_CL_FILE	Kiwan SAP Extractor - file handling
			ZKW_CL_FILE_CLIENT	Kiwan SAP Extractor - local (sapgui) file
			ZKW_CL_FILE_SERVER	Kiwan SAP Extractor - server file
			ZKW_CL_FOLDER	Kiwan SAP Extractor - folder handling
			ZKW_CL_FOLDER_CLIENT	Kiwan SAP Extractor - client (SAPGui) folder
			ZKW_CL_FOLDER_SERVER	Kiwan SAP Extractor - server folder
			ZKW_CL_METADATA	Kiwan SAP Extractor - metadata extraction
			ZKW_CL_ANALYSIS_ERROR	Kiwan SAP Extractor - analysis exception
			ZKW_CL_EXTRACT_ERROR	Kiwan SAP Extractor - extract exception
			ZKW_CL_FILE_ERROR	Kiwan SAP Extractor - file exception
			ZKW_RFC_METADATA	SAPEX - Export SAP metadata
	FUNC	Z_KBWAH/function_group/Z_KBWAH_FUNCTIONS/function	ZKW_SAPEX_CODE_RPC	Kiwan SAP Extractor - RPC wrapper for ZKW_SAPEX_CODE
		ZKW_SAPEX/function_group/ZKW_SAPEX_FUNCTIONS	ZKW_SAPEX_LOADFILE_RPC	Kiwan SAP Extractor - downloading file contents
			ZKW_SAPEX_METADATA_RPC	Kiwan SAP Extractor - RPC wrapper for ZKW_SAPEX_METADATA
			ZKW_SAPEX_INDIR_CHECK	Kiwan SAP Extractor - security check for ZKW_INDIR command
			ZKW_SAPEX_INDIR_RPC	Kiwan SAP Extractor - remove folder
	INCL	Z_KBWAH/function_group/Z_KBWAH_FUNCTIONS/includes	LZ_KBWAH_FUNCTIONS01	LZ_KBWAH_FUNCTIONS01
			LZ_KBWAH_FUNCTIONS02	LZ_KBWAH_FUNCTIONS02
			LZ_KBWAH_FUNCTIONS03	LZ_KBWAH_FUNCTIONS03
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WebDynpro controller, WDYW for WebDynpro window, WDYV for WebDynpro view, etc.

- `_STA` and `_ERR` are reserved for extraction statistics and errors, respectively.

- **Path** is the file pathname, relative to the export directory chosen.
- **Name** is the item name.
- **Message** is either the description for the exported item, or error message.

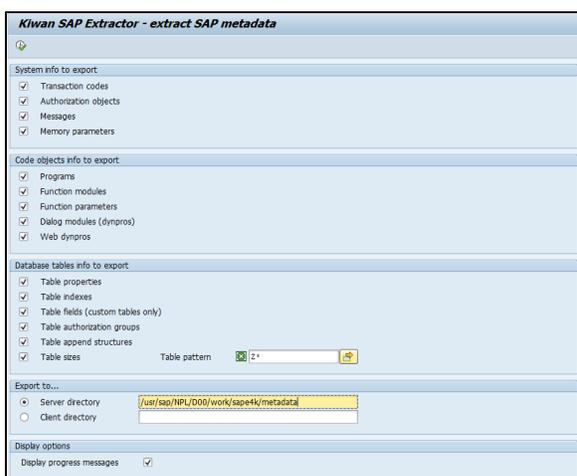
Extract ABAP metadata

The Kiuwan analysis is also based on SAP metadata, not only on the source code.

KAPEX allows you to export the selected information (**metadata**) from the SAP system, creating .txt files in the selected directory.

If SAP metadata is available, that information will be used by Kiuwan, thus providing more accurate results.

1. Run the program `ZKW_SAPEX_METADATA` (using transaction **SA38**):



2. The metadata is exported



The exported metadata is global and could be reused in multiple analyses.

If the full metadata extraction takes too much time, you may perform multiple exports with different parts enabled.

Previously exported files are not removed; they are overwritten when regenerated.

Run analysis

You can execute the Kiuwan Local Analyzer from within the SAP server.

1. Deploy the Kiuwan Local Analyzer in the SAP system
2. Provide analysis parameters
3. Click Export code to export the code
4. Click Analyze or press F8 to launch the analysis
5. Run the program `ZKW_ANALYSIS` (using transaction **SA38**):

