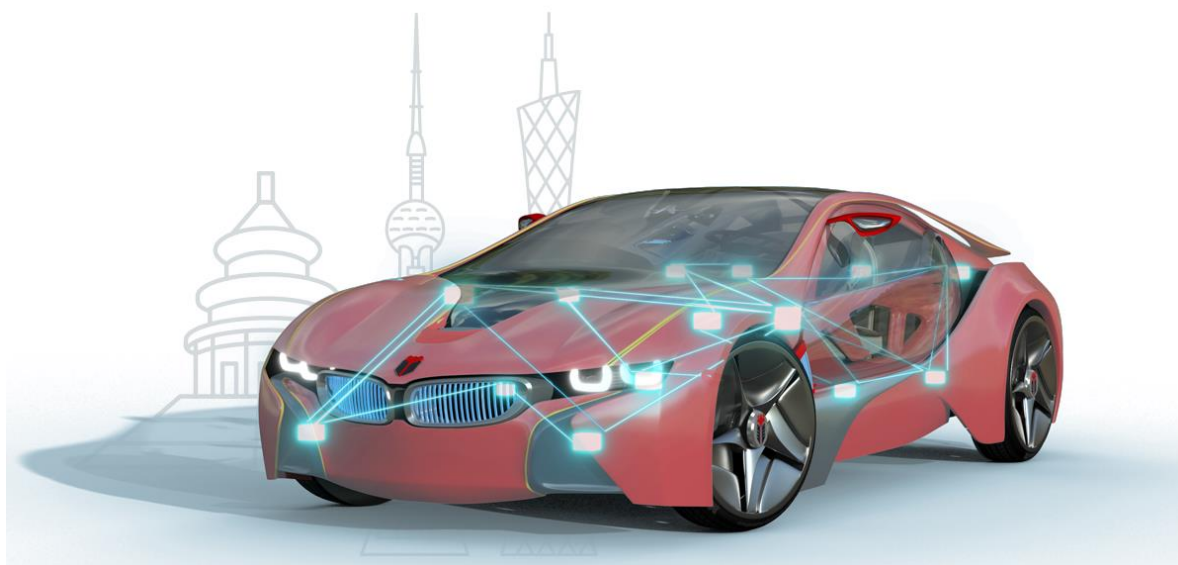


知从木牛.配置工具 ODX 导入 ZC.MUNIU.CONFIGURATION TOOL ODX IMPORT

知从木牛基础软件平台
ZC.MUNIU BASIC SOFTWARE PLATFORM



知从木牛.配置工具 ODX 导入

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1 概述 OVERVIEW

知从木牛配置工具现已支持导入 ODX 文件并自动生成诊断配置模块的功能。ODX (Open Diagnostic Data Exchange) 文件是用于描述车辆诊断数据的标准化格式，包含诊断服务、数据参数、诊断流程及 ECU 诊断能力等信息。这一功能显著提升了基于 AUTOSAR 架构的诊断系统开发效率。

用户可将 ODX 文件直接导入知从木牛配置工具。工具内置高效的 ODX 解析引擎，能够自动提取诊断数据库中的服务定义、参数结构及通信关系，并将其转换为符合 AUTOSAR 标准的诊断配置模块。生成的模块严格遵循 AUTOSAR 诊断规范，支持 DCM (Diagnostic Communication Manager) 等基础软件组件的配置，确保与 AUTOSAR 系统的无缝兼容。同时，用户可通过可视化界面对诊断服务参数及处理流程进行实时调整，增强了诊断系统配置的灵活性和可维护性。

The ZC.MUNIU.CONFIGURATION TOOL now supports importing ODX files and automatically generating diagnostic configuration modules. ODX (Open Diagnostic Data Exchange) files are standardized formats used to describe vehicle diagnostic data, including diagnostic services, data parameters, diagnostic processes, and ECU diagnostic capabilities. This feature significantly improves the development efficiency of diagnostic systems based on AUTOSAR architecture.

Users can directly import ODX files into the ZC.MUNIU.CONFIGURATION TOOL. The tool is equipped with an efficient ODX parsing engine that can automatically extract service definitions, parameter structures, and communication relationships from the diagnostic database, and convert them into diagnostic configuration modules that comply with AUTOSAR standards. The generated module strictly follows the AUTOSAR diagnostic specification and supports the configuration of basic software components such as DCM (Diagnostic Communication Manager) to ensure seamless compatibility with the AUTOSAR system. Meanwhile, users can adjust the

diagnostic service parameters and processing flow in real-time through a visual interface, enhancing the flexibility and maintainability of the diagnostic system configuration.

2 导入 ODX 步骤 STEPS FOR IMPORTING ODX

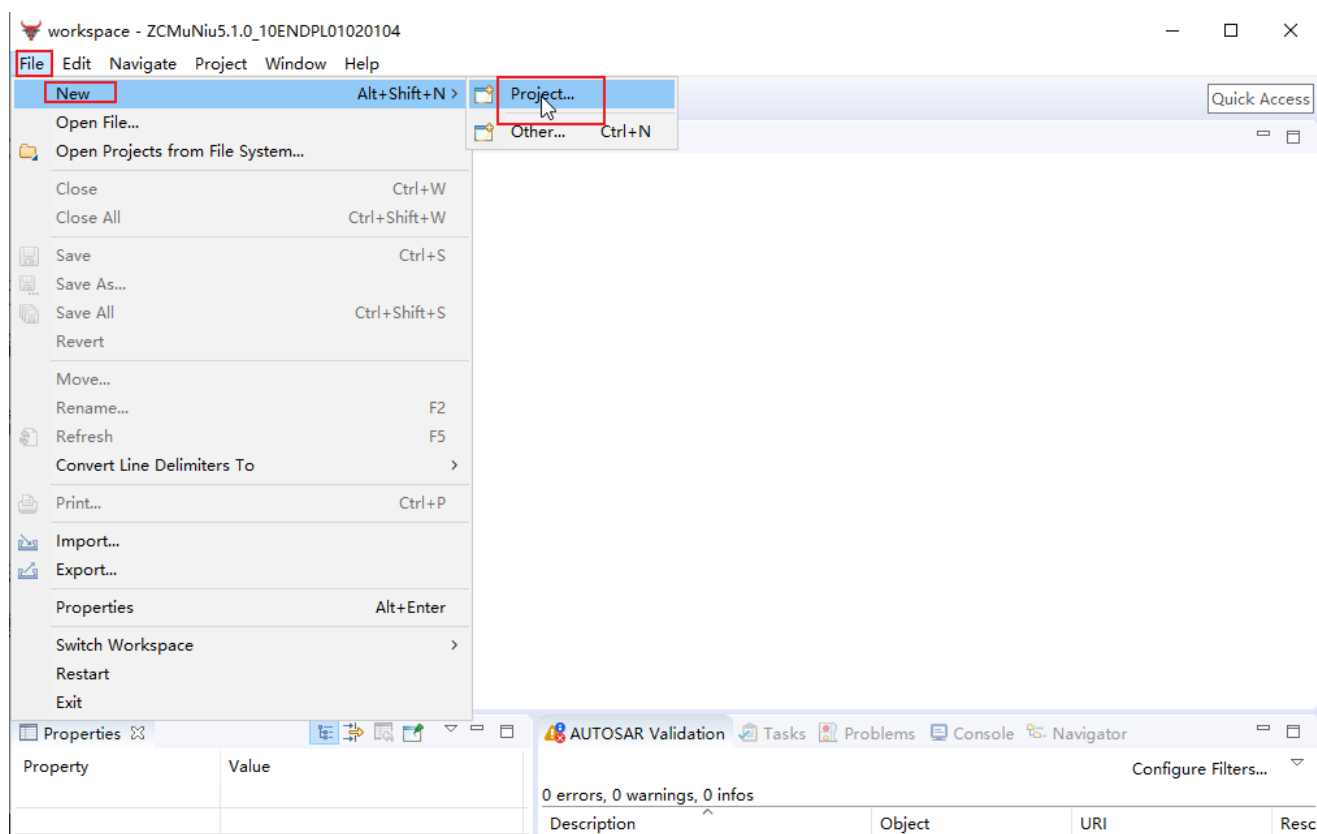
知从木牛配置工具支持导入 ODX 文件，用户需选择导入的节点和配置通道。导入后，工具会自动配置部分通信模块，其余信息需用户手动完成，具体步骤如下：

ZC.MUNIU.CONFIGURATION TOOL supports importing ODX files, and users need to select the node and configuration channel to import. After import, the tool will automatically configure some communication modules, and the remaining information needs to be manually completed by the user. The specific steps are as follows:

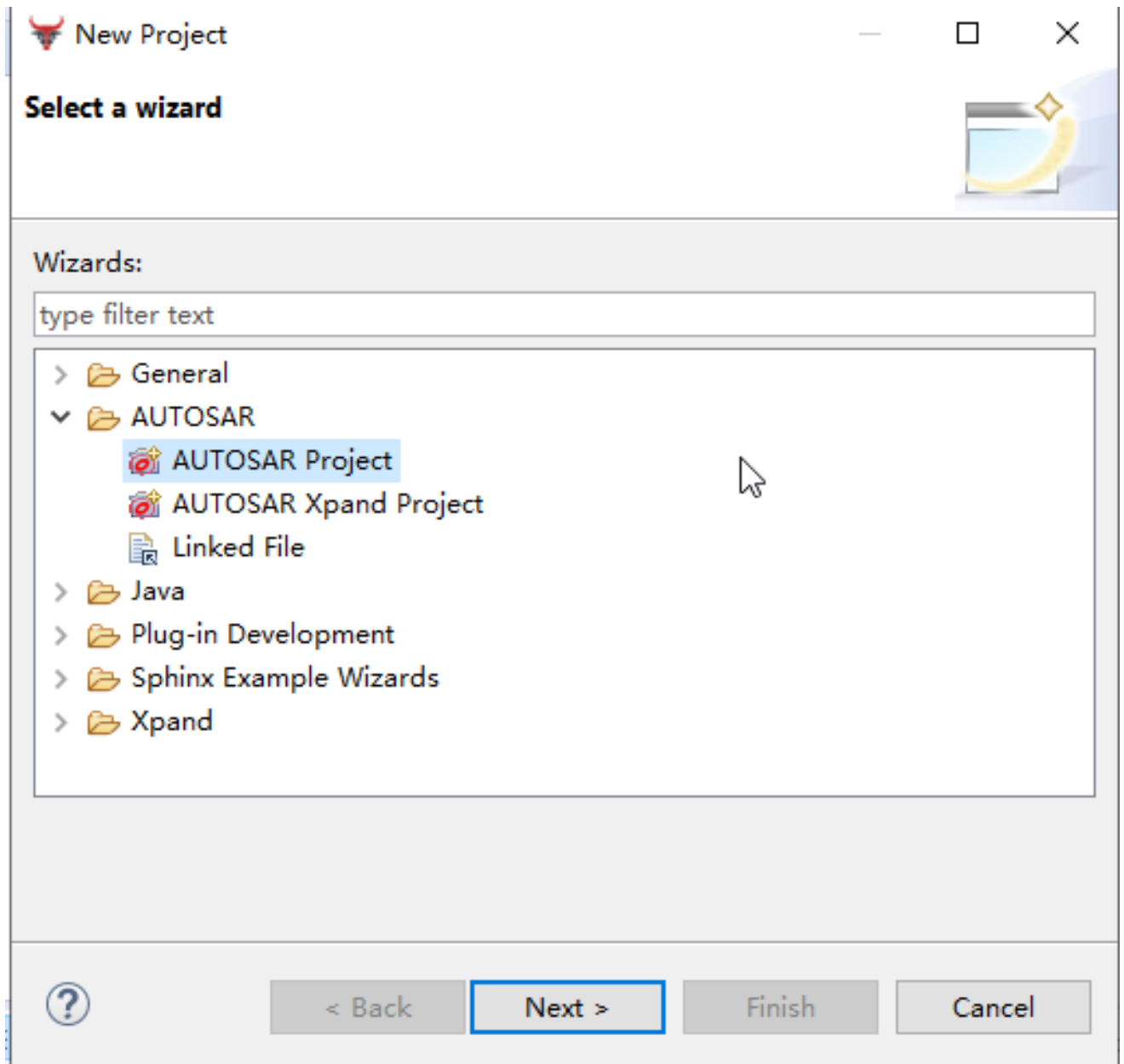
- 工具操作流程
- Tool operation process

1 新建工程

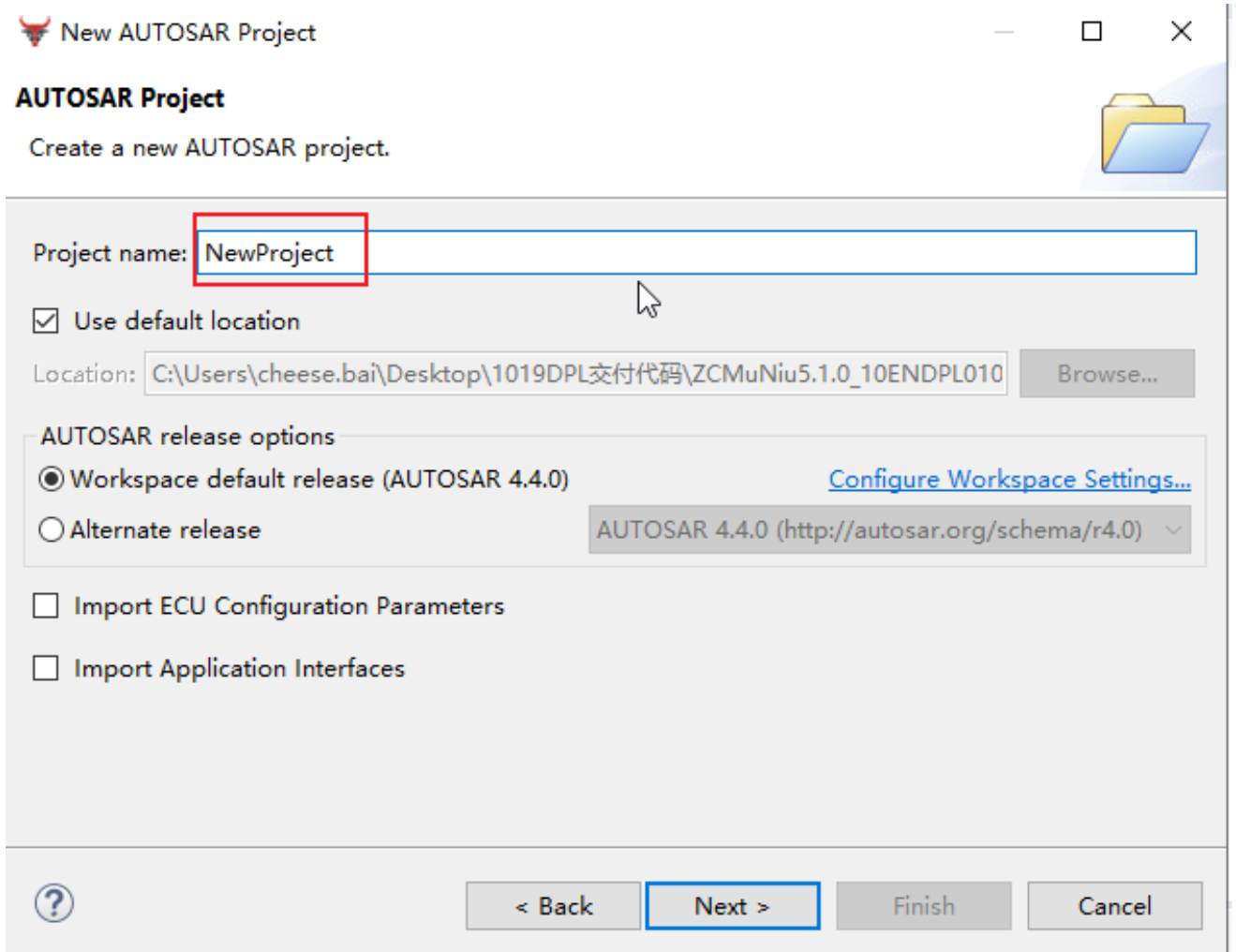
1.1 在木牛工具主页面的菜单中依次选择 File->New->Project
Select File ->New ->Project from the menu on the main page of the ZC.MUNIU.CONFIGURATION TOOL



1.2 在弹出的 Project 窗口中依次选择 AUTOSAR->AUTOSAR Project, 并点击 Next
Select AUTOSAR ->AUTOSAR Project in the pop-up Project window and click Next



1.3 在下一步的窗口中给工程命名并点击 Next，图中以名称 NewProject 为例
Name the project in the next window and click Next, using the name NewProject as an example in the figure



New AUTOSAR Project

AUTOSAR Project
Create a new AUTOSAR project.

Project name: **NewProject**

☒ Use default location

Location: C:\Users\cheese.bai\Desktop\1019DPL交付代码\ZCMuNiu5.1.0_10ENDPL010 [Browse...](#)

AUTOSAR release options

☒ Workspace default release (AUTOSAR 4.4.0) [Configure Workspace Settings...](#)

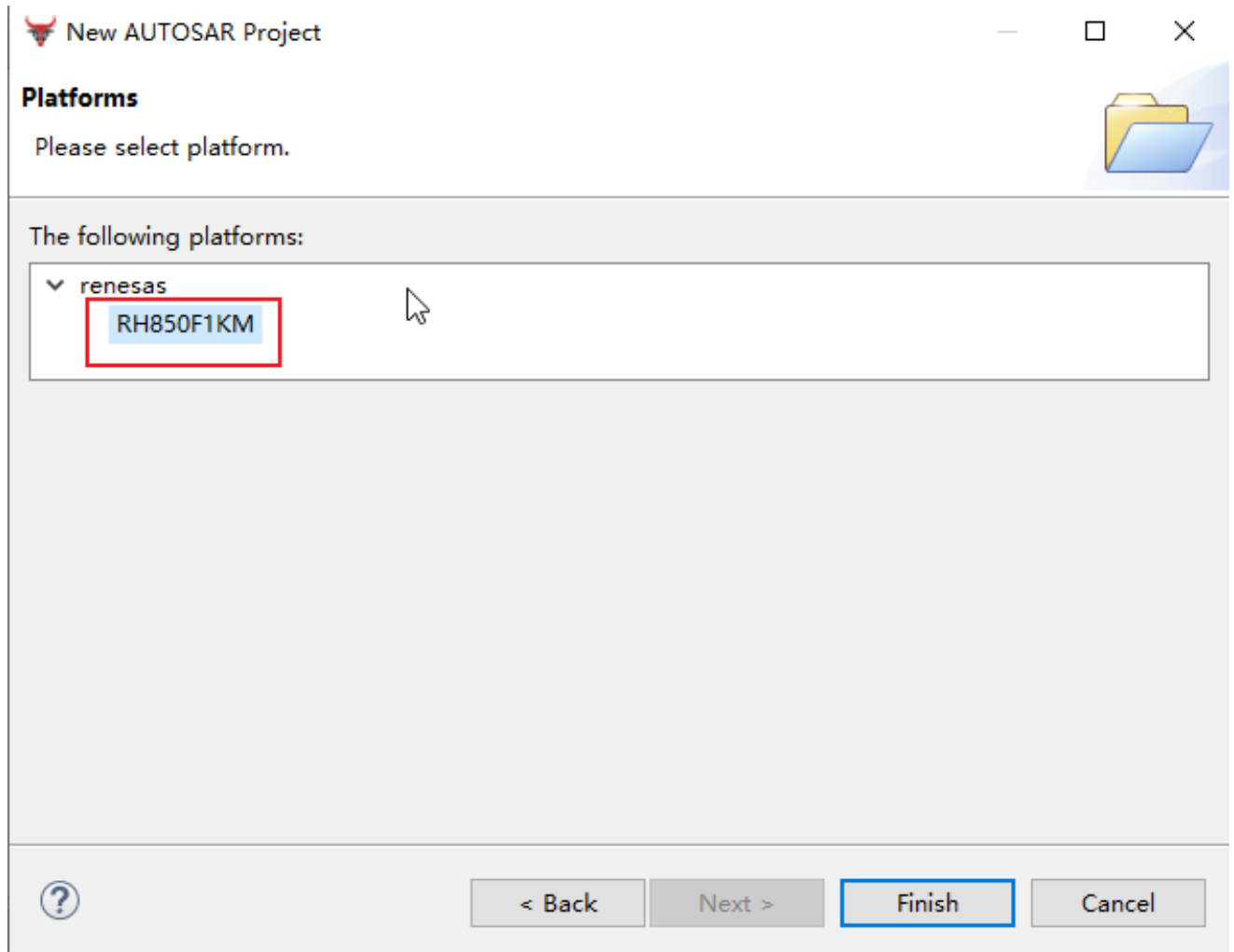
☐ Alternate release AUTOSAR 4.4.0 (http://autosar.org/schema/r4.0) ▼

☐ Import ECU Configuration Parameters

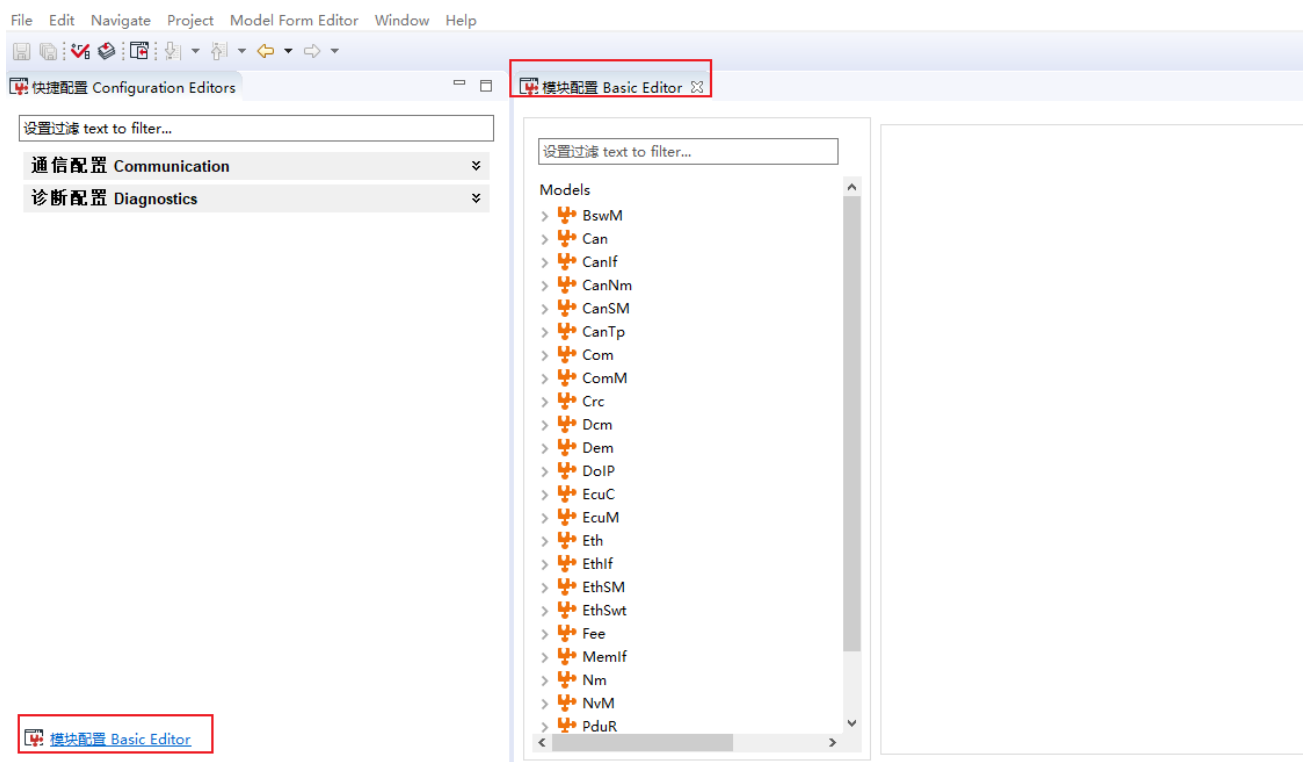
☐ Import Application Interfaces

[?](#) [< Back](#) **Next >** [Finish](#) [Cancel](#)

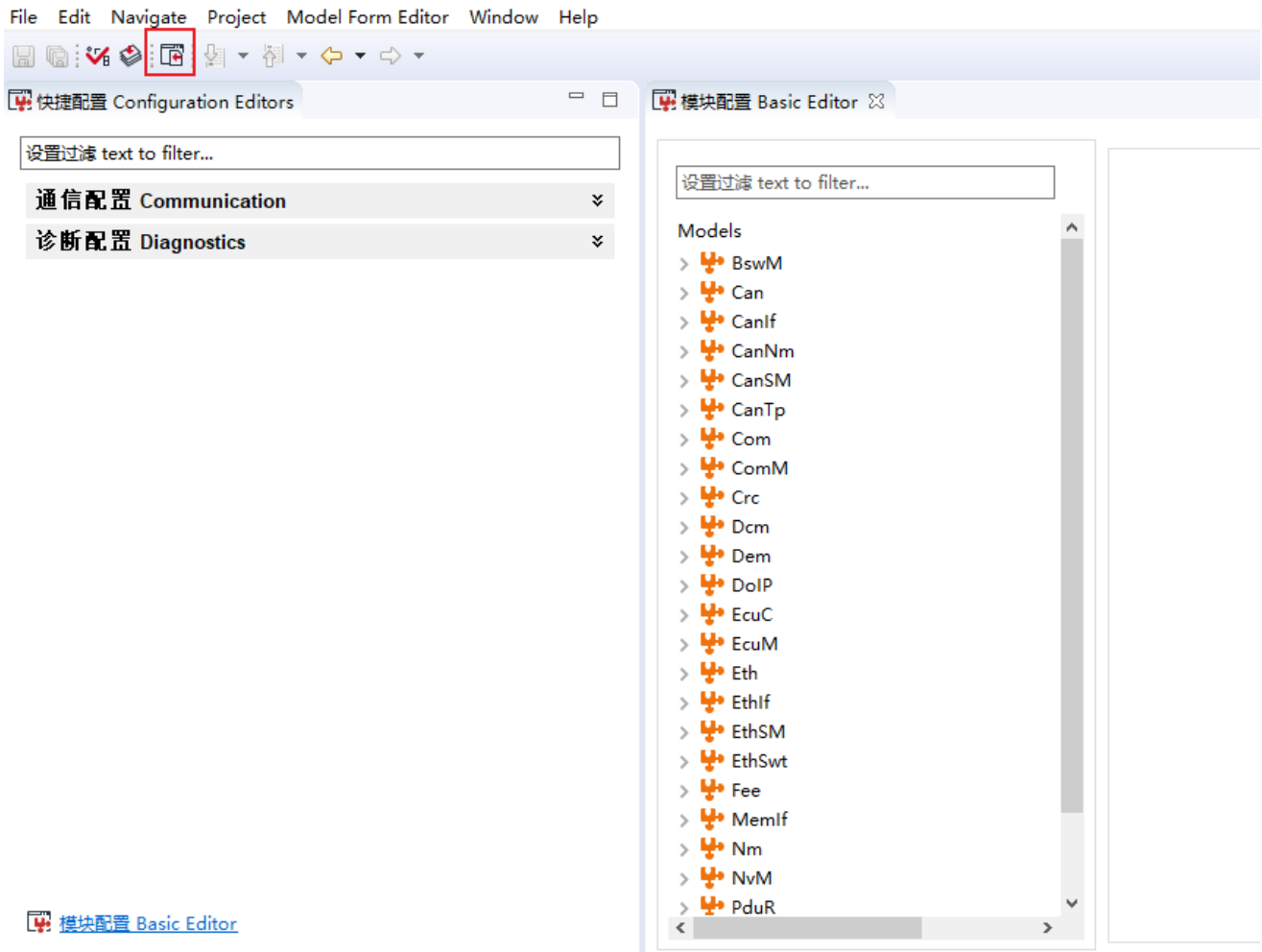
1.4 在下一步的窗口中选择项目对应的芯片，点击 Finish，工程创建完毕
Select the chip corresponding to the project in the next window, click Finish, and the project creation is complete



1.5 新建好工程后，先点击左下角的模块配置 Basic Editor 按钮打开模块基础配置页面
 After creating a new project, click the Basic Editor button in the bottom left corner to open the module basic configuration page

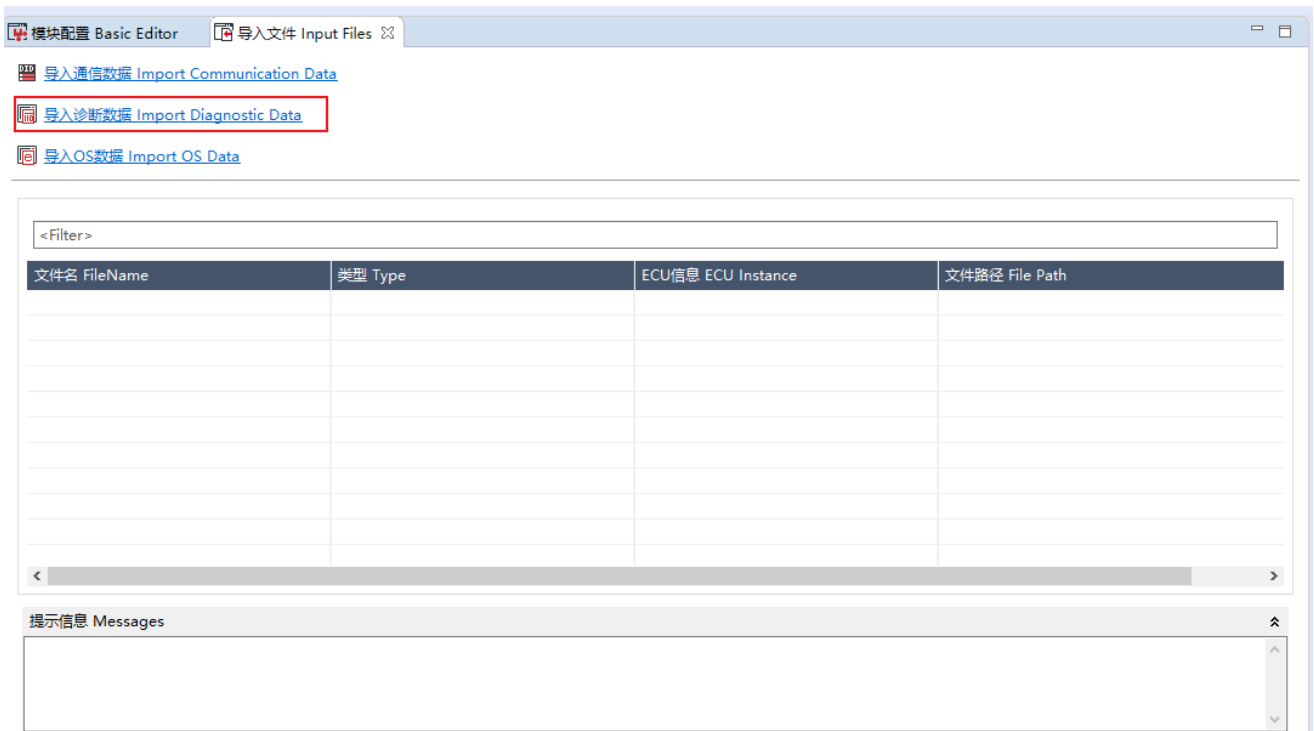


1.6 然后点击菜单栏中的 Input Files 按钮进入文件导入页面
Then click the Input Files button in the menu bar to enter the file import page



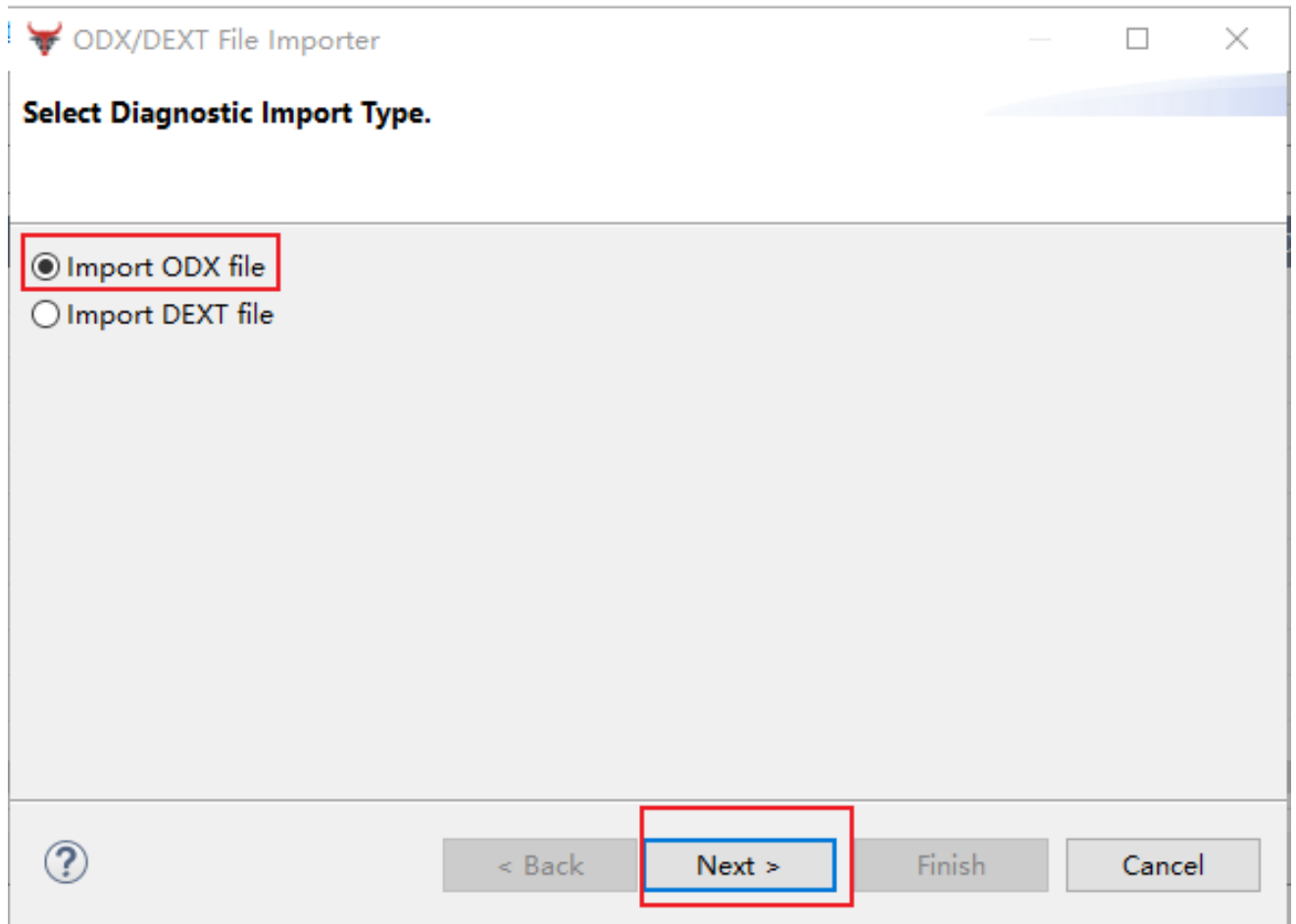
1.7 在文件导入页面选择导入诊断数据 Import Diagnostic Data

Select Import Diagnostic Data on the file import page

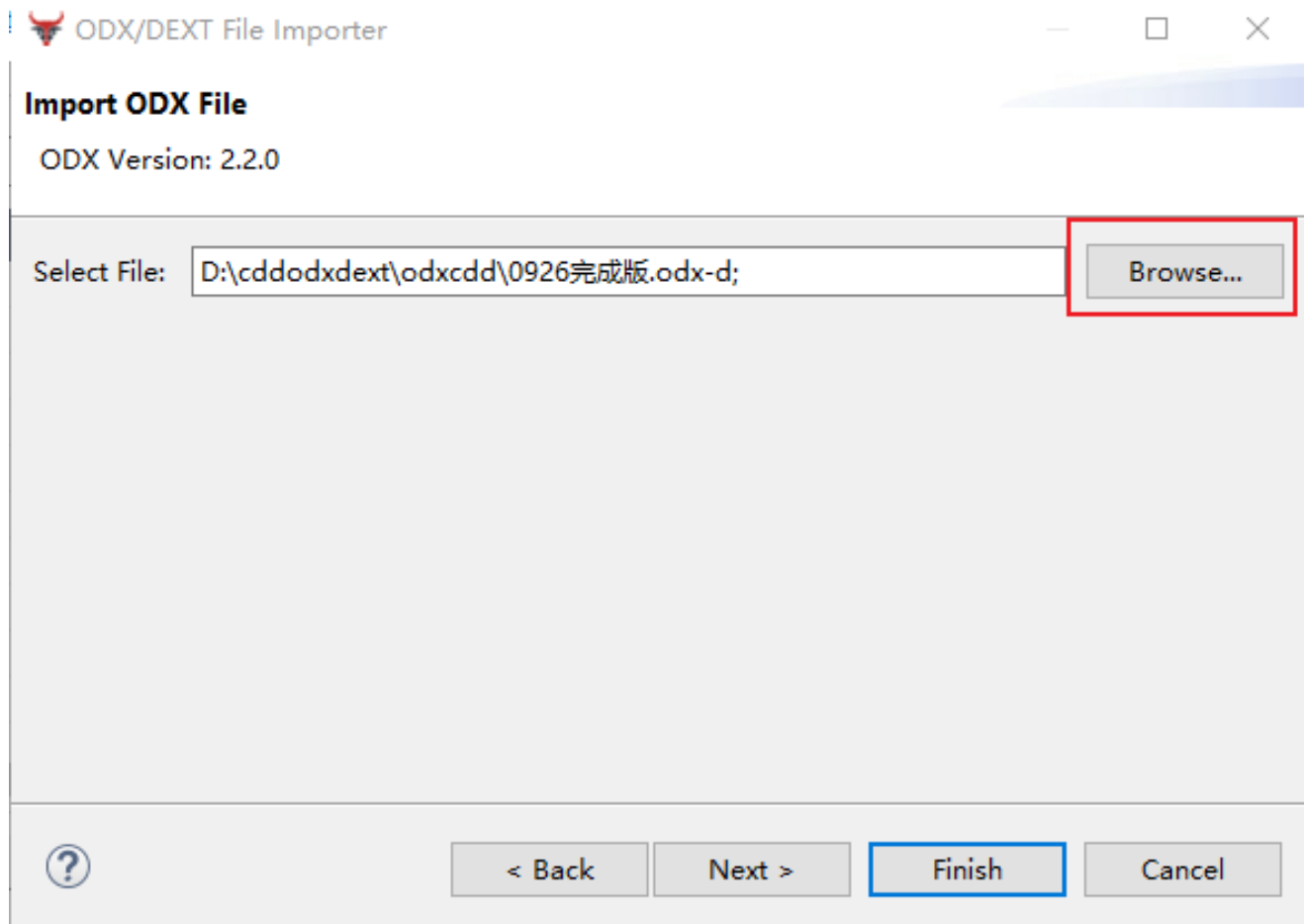


1.8 在弹出窗口中选择导入 ODX 文件，并点击 Next

Select the import ODX file in the pop-up window and click Next

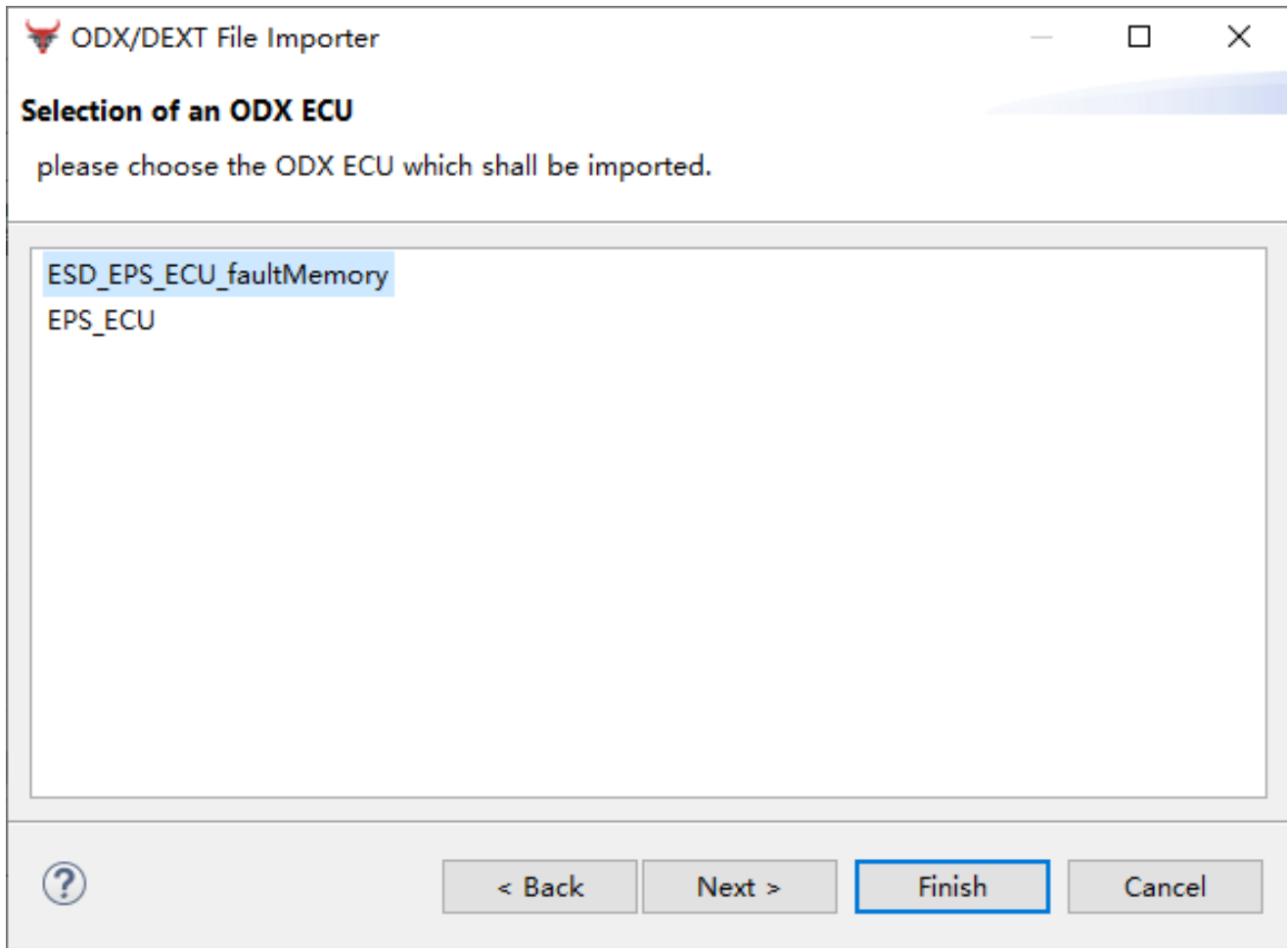


1.9 在下一个页面进入文件浏览器选择要导入的 ODX 文件，选好后点击 Next
On the next page, enter the file browser and select the ODX file to import. After selecting it, click Next

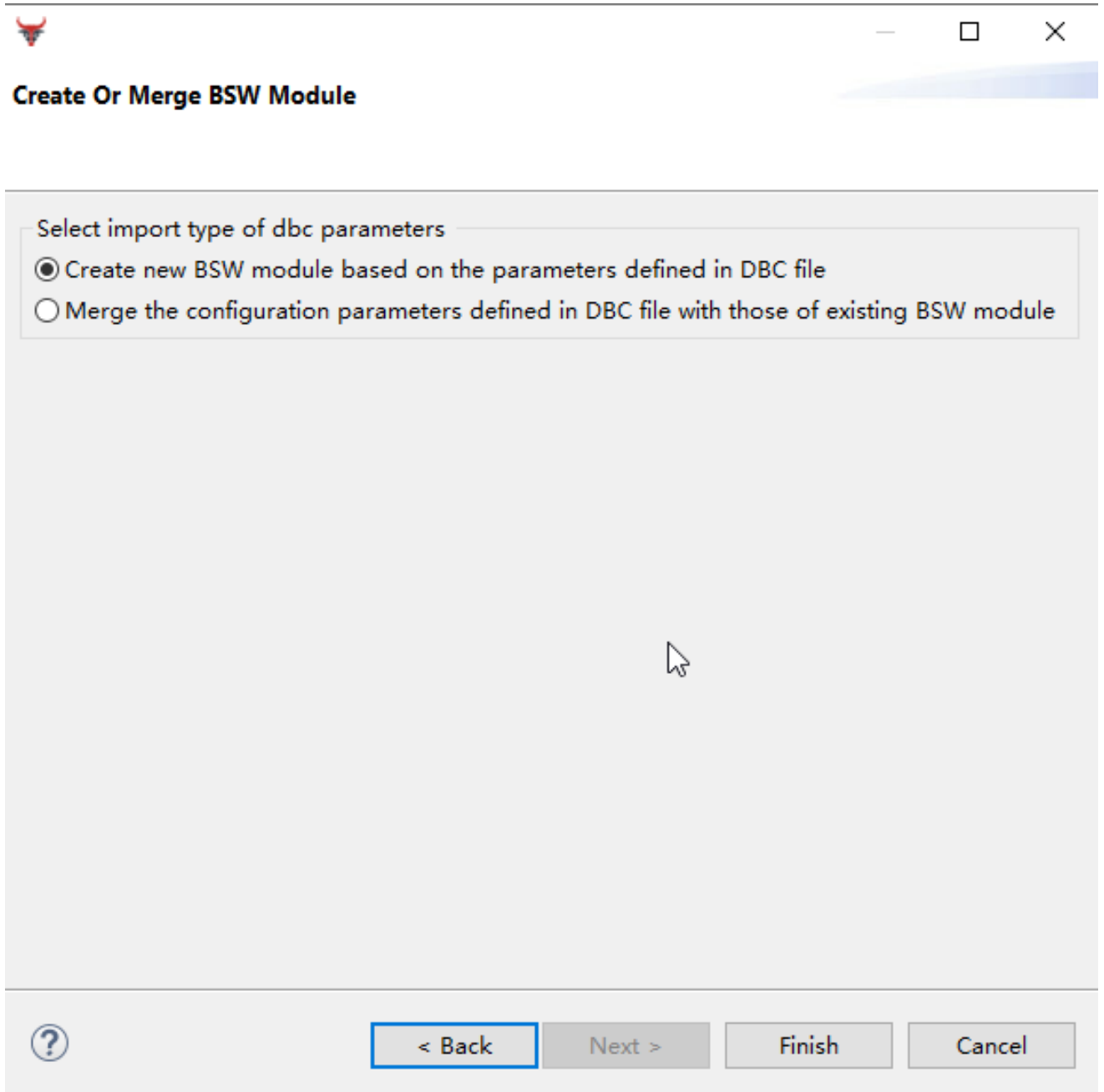


1.10 选择要导入的节点，选好后点击 Next

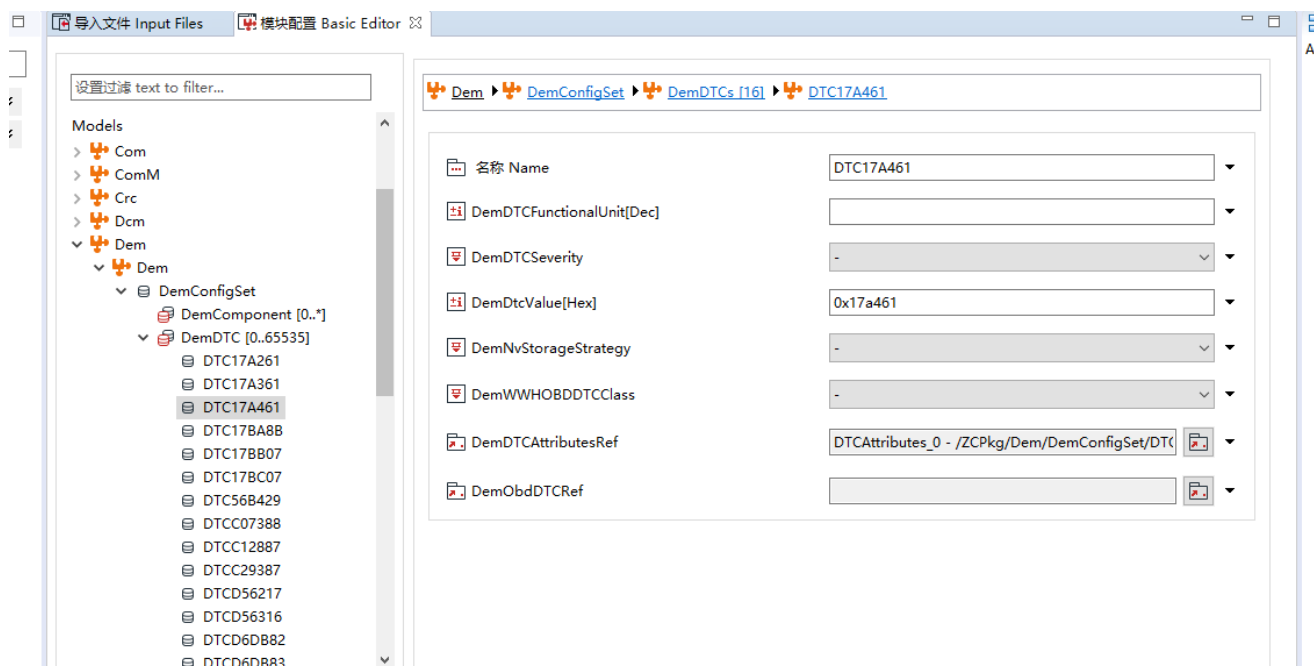
Select the nodes to import, then click Next



1.11 在初次导入 ODX 时选择第一个选项创建配置项，后续需要新增报文二次导入 ODX 时选择第二个选项，选择好后点击 Finish 完成导入
Select the first option to create a configuration item when importing ODX for the first time, and then select the second option when importing ODX for the second time to add new messages. After selecting, click Finish to complete the import



1.12 导入 ODX 文件后，再次启动模块配置 Basic Editor，可看到诊断模块数据已配置完毕
After importing the ODX file, restart the module configuration Basic Editor and you will see that the diagnostic module data has been configured



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