

Microsoft.Office.Interop.Excel

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Kind: Service

Source: Pams/API/Pams.API/Pams.API.csproj (line 1)

Part of: Pams

NuGet package dependency

Microsoft.Office.Interop.Excel is a NuGet package dependency referenced by Pams.API.csproj . It provides the .NET Excel interop types used by the Pams API when code needs to automate Excel or read and write legacy Excel-format files.

Diagram

```
sequenceDiagram
    participant Client
    participant PamsAPI as Pams API
    participant Interop as Microsoft.Office.Interop.Excel
    participant Excel as Microsoft Excel

    Client->>PamsAPI: Request Excel processing
    PamsAPI->>Interop: Create Excel application and workbook
    Interop->>Excel: Open or create workbook
    Excel-->>Interop: Workbook data
    Interop-->>PamsAPI: Excel objects and results
    PamsAPI-->>Client: Return processed response
```

Usage

```
import { execFile } from "node:child_process";

function exportWithPamsApi(inputPath: string, outputPath: string) {
    execFile(
        "dotnet",
        [
```

```

        "run",
        "--project",
        "Pams/API/Pams.API/Pams.API.csproj",
        "--",
        "export-excel",
        inputPath,
        outputPath,
    ],
    (error, stdout, stderr) => {
        if (error) {
            throw new Error(stderr || error.message);
        }

        console.log(stdout);
    },
    );
}

exportWithPamsApi("input.xlsx", "output.xlsx");

```

AI Coding Instructions

- Keep Excel interop references in `Pams/API/Pams.API/Pams.API.csproj` ; do not add duplicate package references in unrelated projects.
- Release COM objects after workbook processing to prevent Excel processes from remaining open.
- Handle Excel application, workbook, and worksheet cleanup in `finally` blocks.
- Validate file paths and legacy Excel-format compatibility before passing files to interop code.

Used by

1 reference from 1 file. Each is a place in this repository where the symbol is actually used — go read one rather than trusting an example.

Injected or called by (1)

- `Pams.API` — `Pams/API/Pams.API/Pams.API.csproj` :1