

# System.Runtime.Serialization

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## System.Runtime.Serialization

**Kind:** Service

**Source:** Pams/Data/Pams.Data/Pams.Data.csproj (line 1)

**Part of:** Pams

NuGet package dependency

`System.Runtime.Serialization` is a NuGet package dependency declared by `Pams.Data.csproj`. It lets `Pams.Data` reference .NET serialization APIs when code reads or writes legacy serialized data.

## Diagram

```
sequenceDiagram
    participant DataCode as Pams.Data code
    participant Project as Pams.Data.csproj
    participant Package as System.Runtime.Serialization
    participant Runtime as .NET runtime

    DataCode->>Project: Build Pams.Data
    Project->>Package: Resolve PackageReference
    Package->>Runtime: Load serialization APIs
    DataCode->>Runtime: Serialize or deserialize legacy data
```

## Usage

```
import { execFileSync } from "node:child_process";
import { readFileSync } from "node:fs";
import { resolve } from "node:path";

const projectPath = resolve("Pams/Data/Pams.Data/Pams.Data.csproj");
const projectFile = readFileSync(projectPath, "utf8");

if (!projectFile.includes('System.Runtime.Serialization')) {
```

```
throw new Error(  
    "Pams.Data.csproj must reference System.Runtime.Serialization.",  
);  
}  
  
execFileSync("dotnet", ["build", projectPath], {  
    stdio: "inherit",  
});
```

## AI Coding Instructions

- Keep the `System.Runtime.Serialization` package reference in `Pams.Data.csproj` when editing code that depends on serialization APIs.
- Check existing serialization and deserialization paths before changing data contracts or serialized types.
- Treat serialized legacy data as a compatibility boundary; avoid changing formats without validating existing stored payloads.
- Restore and build the `Pams.Data` project after package or project-file changes.