WHAT IS MSIX:

“MSIX is Microsoft’s modern packaging format for Windows applications. It takes the best features from older formats like MSI and AppX. It fixes many of the problems those older formats had. With MSIX, apps can be installed, updated, and uninstalled in a clean and reliable way, without leaving leftover files or registry entries. It works for almost all types of applications, including Win32 and .NET appsand it is more secure because packages are digitally signed and run in a **protected container**, keeping the system safe.”

**Key Benefits of MSIX:**  
There are several important benefits:

1. **Reliable Install and Uninstall:** When you install or remove an app using MSIX, it leaves no junk behind. This keeps the system clean and avoids errors caused by leftover files.
2. **Improved Security:** MSIX packages are signed and run in a secure container, which protects the system from potential risks.
3. **Simplified Updates:** With MSIX, you don’t have to reinstall the whole application for every update. It only updates the changed files, which saves time and bandwidth.
4. **Enterprise-Friendly:** MSIX works well with enterprise deployment tools like SCCM(System Center Configuration Manager), Intune, and Microsoft Store. This makes it easier for IT teams to manage applications across many devices.
5. **Supports Legacy and Modern Apps:** MSIX can handle older Win32 applications as well as modern apps. This is helpful for companies that want to update their software without rewriting everything.
6. **Consistent Experience:** It ensures that apps behave predictably on all Windows devices, which reduces errors and support calls from users.”

**Why MSIX**

“Even MSI has been the standard for installing Windows applications for many years, it has some limitations. For example, MSI can leave leftover files or registry entries after uninstalling an app, updates can be complicated, and managing applications across many devices can be challenging.

MSIX solves these problems. It provides a **clean and reliable installation**, ensures **better security** through digital signatures ,and supports **easier updates**.MSIX is also designed to work smoothly with enterprise tools like **SCCM, Intune, and Microsoft Store**, making deployment across many devices simpler and more efficient.

In short, while MSI works, MSIX is a **modern and improved approach** that makes managing, updating, and securing applications much easier for companies and IT teams.”

### ****Current Limitations of MSIX:****

“MSIX is a modern and powerful packaging format, but it still has some limitations compared to MSI or App-V.

1. **Driver & Service Installation:**  
   MSIX cannot fully install drivers or services. Applications that require these components might not work correctly when packaged as MSIX.
2. **Deep System-Level Changes:**  
   MSIX restricts deep system-level changes, like installing into the Global Assembly Cache (GAC) or running custom scripts during installation. This keeps the system safe but limits some advanced installations.
3. **Limited App Customization:**  
   Traditional MSI customization methods, like MST transforms, are not available in MSIX. To customize applications, new tools or approaches are required.”