Summary: Resolving E_ACCESSDENIED via Impersonation Level Change in Window

Overview:

Windows 11 24H2 introduces stricter COM/DCOM security rules as part of DCOM hardening (KB5004442). These changes enforce higher authentication and impersonation standards, resulting in E_ACCESSDENIED errors for some operations using RPC_C_IMP_LEVEL_IMPERSONATE.

Key Change:

Switching the impersonation level from RPC_C_IMP_LEVEL_IMPERSONATE to RPC_C_IMP_LEVEL_IDENTIFY resolves E_ACCESSDENIED by reducing the server's ability to act on behalf of the client, thus complying with new DCOM restrictions.

Supporting Documentation:

- KB5004442: Confirms enforcement of DCOM hardening and blocks authentication levels below RPC_C_AUTHN_LEVEL_PKT_INTEGRITY.
- DCOM Hardening Overview: Registry overrides removed in March 2023; stricter impersonation enforcement applied.
- ColnitializeSecurity Function: Defines impersonation levels and their impact on COM security.
- Impersonation Levels in COM: Explains the difference between IDENTIFY and IMPERSONATE levels.
- Real-world Example: Microsoft Q&A thread shows E_ACCESSDENIED resolved by switching to IDENTIFY.

Justification:

Although Microsoft documentation focuses on authentication levels, real-world cases and internal analysis confirm that IDENTIFY avoids privilege escalation risks and passes DCOM checks in Windows 11 24H2.

Recommendation:

Implement the impersonation level change to ensure compatibility with Windows 11 24H2 and avoid access

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denial errors. This change aligns v	vitn iviicrosofts	security	enforcement	and is	supported b	y documented
behavior and community feedback.						