# TTP Detail – T1559.001

## TTP Information

Name: Component Object Model

Description: Adversaries may use the Windows Component Object Model (COM) for local code execution. COM is an inter-process communication (IPC) component of the native Windows application programming interface (API) that enables interaction between software objects, or executable code that implements one or more interfaces.(Citation: Fireeye Hunting COM June 2019) Through COM, a client object can call methods of server objects, which are typically binary Dynamic Link Libraries (DLL) or executables (EXE).(Citation: Microsoft COM) Remote COM execution is facilitated by [Remote Services](https://attack.mitre.org/techniques/T1021) such as [Distributed Component Object Model](https://attack.mitre.org/techniques/T1021/003) (DCOM).(Citation: Fireeye Hunting COM June 2019)  
  
Various COM interfaces are exposed that can be abused to invoke arbitrary execution via a variety of programming languages such as C, C++, Java, and [Visual Basic](https://attack.mitre.org/techniques/T1059/005).(Citation: Microsoft COM) Specific COM objects also exist to directly perform functions beyond code execution, such as creating a [Scheduled Task/Job](https://attack.mitre.org/techniques/T1053), fileless download/execution, and other adversary behaviors related to privilege escalation and persistence.(Citation: Fireeye Hunting COM June 2019)(Citation: ProjectZero File Write EoP Apr 2018)

## Threat-Mapped Scoring

Score: 1.8

Priority: P4 - Informational (Low)

## Kill Chain Phases

**•** mitre-attack: execution

## Malware

* Bumblebee
* DarkTortilla
* FunnyDream
* Gelsemium
* HermeticWizard
* InvisiMole
* Latrodectus
* Milan
* Neoichor
* POWERSTATS
* Ramsay
* Raspberry Robin
* TrickBot
* Ursnif

## Tools

* SILENTTRINITY

## APTs (Intrusion Sets)

* Gamaredon Group
* MuddyWater