



Camlytics Service OS SPECIFICATIONS

Overview

This document provides a comprehensive overview of the Camlytics application architecture, including all processes, services, and system access requirements necessary for proper operation and deployment.

User-Mode Processes

The following executables operate under standard user privileges.

Executable	Description	Role
Camlytics.Ui.exe	Process that initializes UI and launches the main UI module	Application Launcher
Camdata.exe	Main UI module	Primary UI
Camdata.StateInfo.exe	Channel state information. Additional UI module	Information Display
Notify.Icon.exe	Taskbar icon and notification interface	User Notification
Player.Pipe.exe	Video stream player	Media Playback
ServiceTool.exe	Module for working with services	Service Management
Updater.exe	Module for checking and installing updates	Update Management

System-Mode Services

The following services operate with elevated system privileges.

Executable	Description	Launch Context
Camdata.Service.exe	Main service process — core system component	System Rights (Primary)
Notify.Service.exe	Notification service with system tray integration	System Rights
Player.Pipe.exe	Video stream player with flexible deployment	User Mode or Background Service Mode
ServiceTool.exe	Service management and configuration utility	User Mode or Service Mode

Access Requirements

3.1 File System Access

Required Directory: `%programdata%\Camlytics_v3\` · **Access Level:** Full Read / Write access required.

All processes require complete access to the specified directory for:

- Configuration file management
- Data storage and caching
- Log file generation
- Temporary file operations

3.2 Registry Access

Purpose: CPU load graph information (displayed in UI).

KNOWN ISSUE — System.UnauthorizedAccessException

Access to the registry key '**238**' is denied.

The application requires access to system registry keys for monitoring CPU load information. The current implementation encounters access restrictions on specific registry keys.

Deployment Considerations

File System Permissions

Proper permissions must be configured on `%programdata%\Camlytics_v3\` before deployment. All user accounts that will run Camlytics processes require full read and write permissions.

Registry Permissions

For CPU monitoring functionality to work correctly, ensure the service account has appropriate registry read permissions. Administrative privileges may be required during installation to properly configure registry access.

Process Architecture

Some executables (*Player.Pipe.exe* and *ServiceTool.exe*) can operate in multiple execution contexts. Ensure proper permissions are granted for both user-mode and system-mode operations.

Security & Permissions Summary

Resource	Required Access	Privilege Level
<code>%programdata%\Camlytics_v3\</code>	Read / Write / Modify / Delete	Standard User (directory) + System (services)
Registry — System Performance Keys	Read	Local System / Administrator
Service Management	Start / Stop / Query	Local System
UI Display & Interaction	Standard Operations	Standard User

Known Issues & Remediation

REGISTRY ACCESS EXCEPTION

Issue: System.UnauthorizedAccessException when accessing registry key '238'.

Affected Component: CPU load graph display in UI. · **Status:** Requires elevated permissions or registry key ACL modification.

Recommended Action: Run UI components with administrative privileges, or configure registry key permissions appropriately.