

OPTIMIZATION

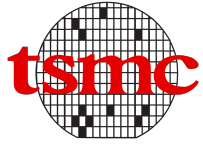
PORTAL-TOOLS- AIEDA

Date of conception: 2020/10/M

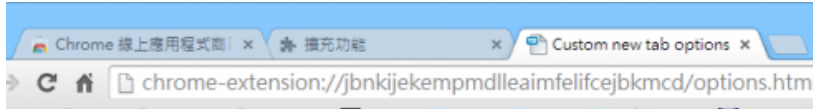
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Documentation written record: 2021/05/04





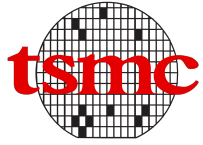
PROBLEMS



Problem 1: Memory Leak
Open the new tab through the portal.

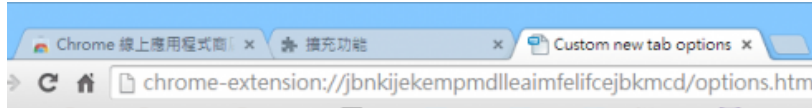


Problem 2: Migrate System
For upgrading chrome impact.



SOLUTIONS and BENEFITS

Problem Solved



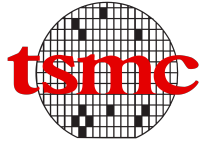
Crash-resilient and Memory leak prevention:

Compared with other portal in tsmc are single process, every tabs in AIEDA are in isolated processes, even 1 tab occupies too many resources or even crashed, it won't affect the other tabs.



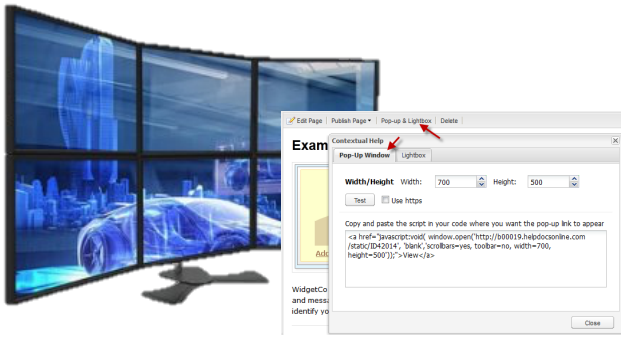
Native App feature:

Resolve Chrome upgrade issue and allow interaction with other rich client systems of tsmc.



SOLUTIONS and BENEFITS

Additional Optimization



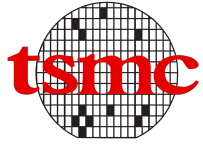
Multi-screen support:

Provide **popup/popdown** window and **multi-screen display** function to improve user analysis efficiency.

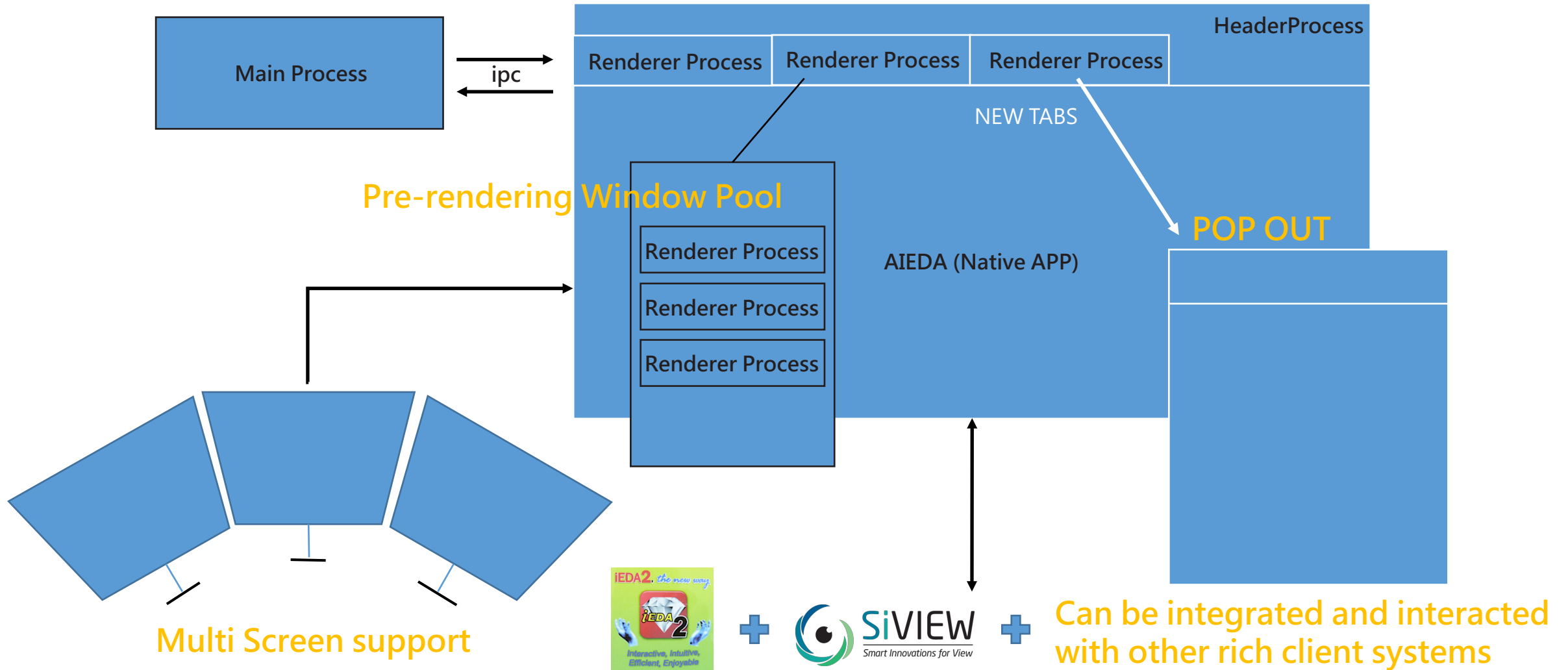


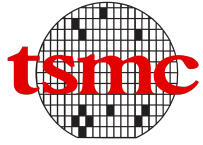
Optimize user experience:

Provide multiple fancy UI functions (**Dark/Light mode switch**, **multi-screen support**, etc.) and **improve system performance** through pre-rendering window.



INTERFACE DRAFT





SUMMARY for TARGET

AIEDA plan to be new generation engineering data analysis (EDA) platform which is a high performance, crash-resilient native app based on multi-process architecture.

Moreover, it avoid issues caused by chrome frequently update and can high interact with other rich client system.