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(57) Abstract :

An interoperable platform for cross-device application synchronization includes a source device (101), a state capture module (102), a synchronization descriptor compiler (103), a coordination service (104), a policy and trust engine (105), an adaptive transport manager (106), a destination capability profiler (107), and a reconstruction orchestrator (108). Application continuity information is converted into a normalized descriptor, validated under trust and policy rules, transmitted through an adaptive pathway, and reconstructed in a destination-specific form on a destination device (109). The platform enables secure, capability-aware, and resilient continuation of application sessions across heterogeneous devices and network conditions.

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