



RAMTERA

PRODUCT DOCUMENTATION · PHYSICAL IMPLEMENTATION (PRE)

RAMTERA-PRE-SEC

Security and Confidentiality Overview

On-premises always — including what distributed timing transmits

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PRE Security and Confidentiality Overview

PRE follows the same security model as LVR — your data never leaves your premises — with one addition to state: distributed timing moves design-derived data between your own machines, and this document says exactly what moves.

on-premises execution, always	0 telemetry or phone-home	your network distributed traffic never leaves it	NDA backed evaluations
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Base model (shared with LVR)

Installer plus license file; you run PRE on your machines and your designs; no outbound connections, no telemetry, no update checks; air-gapped operation supported; the license file encodes only host identifiers and entitlement terms; logs and results stay under your paths; support works from logs and reproducers you choose to share, never your design database by default.

What distributed timing transmits

Item	Statement
Transport	your secure-shell configuration or your batch queue — PRE adds no transport of its own and opens no listening ports
Payload	batch Tcl scripts referencing file paths on your shared filesystem, and single-line numeric result files; design data itself moves only via your filesystem, under your mounts and permissions
Hosts	the host list you configure; nothing is discovered or contacted beyond it
Residue	per-view scripts and result files are ordinary files in the run area — inspect or purge them under your own policy

Business process

Mutual NDA for evaluations and pilots; Ramtera engineers work under your access controls; benchmark results from your designs are yours; Ramtera's public materials use open process design kits and synthetic designs only.

SECURITY REVIEWS — Security-review artifacts (dependency inventory, build provenance) are handled in evaluation onboarding, same as LVR.

About Ramtera

Ramtera Inc. (Delaware, USA), with R&D at Ramtera Design Automation India Pvt Ltd (Bangalore), builds electronic design automation software for physical verification and physical implementation. LVR is Ramtera's physical verification engine (DRC, LVS, ERC, XOR, parasitic extraction); PRE is Ramtera's physical implementation environment (floorplanning, placement, clock tree synthesis, routing, timing analysis and optimization), built on industry-standard command conventions so existing flow scripts and operator skills transfer directly. The company holds granted patents and registered copyrights covering its engines.

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This document reports measurements from Ramtera's engineering environment (Ubuntu 24.04, GCC 13.3, Tcl 8.6) unless stated otherwise. Product behavior and figures are subject to change; no compatibility, certification, or endorsement by any third party is stated or implied.