







Titanium Server (TiS)

Notification API

Guest Heartbeat &













TiS Guest Heartbeat & Notification API

- Default monitoring of Guests is provided automatically by TiS via monitoring the QEMU process running the Guest's Virtual Machine
- Enhanced monitoring and management of the Guest can be achieved with the TiS Guest Heartbeat & Notification API
 - heartbeating / periodic health-checks of Guest Application Process(es) inside the Guest's VM,
 - checks / voting to ensure an application is in a suitable state for a particular action, e.g. stop, reboot, pause, etc.
 - notification of pending action, in order to enable graceful application behavior e.g. notification of stop, reboot, pause, etc.
- Client API supports both
 - a message-based API, and
 - a mechanism to register action-specific scripts
 (e.g. health-check script, corrective-action-script, shutdown-script, etc.)



TiS Guest Heartbeat & Notification API



Controller Node

Platform
Controller Services

The Guest is required to:

- package TiS Heartbeat Daemon
 - started from init.d,
 - acts as proxy between Guest Applications and TiS Platform,
- for any Guest Process requiring heartbeat-ing or notification of action events
 - link with TiS libheartbeat_api.so,
 - use the associated message-based API to register for heartbeating and notification of action events
- or alternatively register action-specific scripts
 - use the TiS heartbeat_client utility to register for heartbeating and to run the specified application-specific health-check, corrective-action and/or shutdown scripts









