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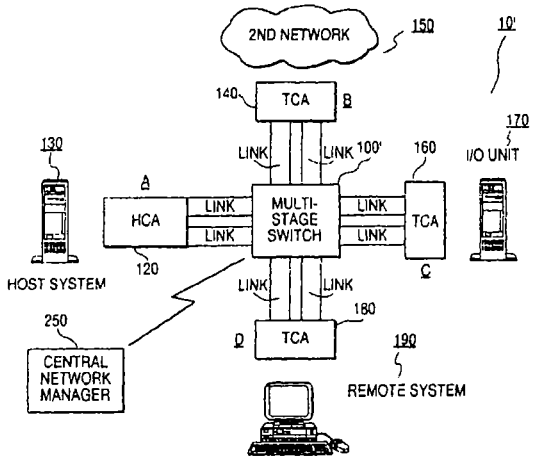
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(54) Title: METHODOLOGY AND MECHANISM FOR REMOTE KEY VALIDATION FOR NGIO/INFINIBAND™ APPLICATIONS



(57) Abstract: A host system is provided with one or more host-fabric adapters installed therein for connecting to a switched fabric of a data network. The host-fabric adapter may comprise at least one Micro-Engine (ME) arranged to establish connections and support data transfert operations via a switched fabric; a serial interface arranged to receive and transmit data packets from the switched fabric for data transfer operations; a host interface arranged to receive and transmit host data transfer work requests from the host system for data transfer operations; a context memory arranged to provide context information necessary for data transfer operations; a doorbell manager arranged to update the context information needed for the Micro-Engine (ME) to process host data transfer requests for data transfer operations; and a remote key manager arranged to manage remote keys and check the validity of the remote keys which correspond to outstanding data transfer operations.

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