HITACHI Inspire the Next

Autonomous Decentralized System Middleware



- Peer-to-peer transfer between nodes
- · One-to-many transfer to multiple nodes

(3) High Reliability System Support

- · Redundant communication path control
- \cdot Reliable multicast communication with retransmission control

(4) Network RAS (Reliability, Availability, Serviceability) Functions

- · Network resource monitoring functions (node, network, buffer, application, etc.)
- \cdot Journaling functions (transaction events and transaction information)
- · System testing support functions

1. Data sharing mechanism - Messages (Files) and Memory transfer



(1) Message transfer data sharing

- Simplified communication using messages with transaction codes (TCD)
- Multicast communication and peer-to-peer communication



- (2) File transfer data sharing
 - High-speed file distribution to multiple nodes
 - (Eliminating the disadvantage of FTP load of the network and CPU)

(3) Memory transfer data sharing

- Middleware allocates consistently the memory areas on each computer by using unique transfer memory identifiers.

message

- Application software does not need to comply with transmission protocols.

2. Easy programming

- Programming using a simplified GET/PUT procedure Step ① "GET" message from the network Step ② Message processing Step ③ "PUT" message onto the network
- C language (shared library, DLL)
- No need for TCP/IP protocol knowledge or programming skills.



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Network

- Simple and comprehensible process structure

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