OVERVIEW OF VAPI CORE

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Concept

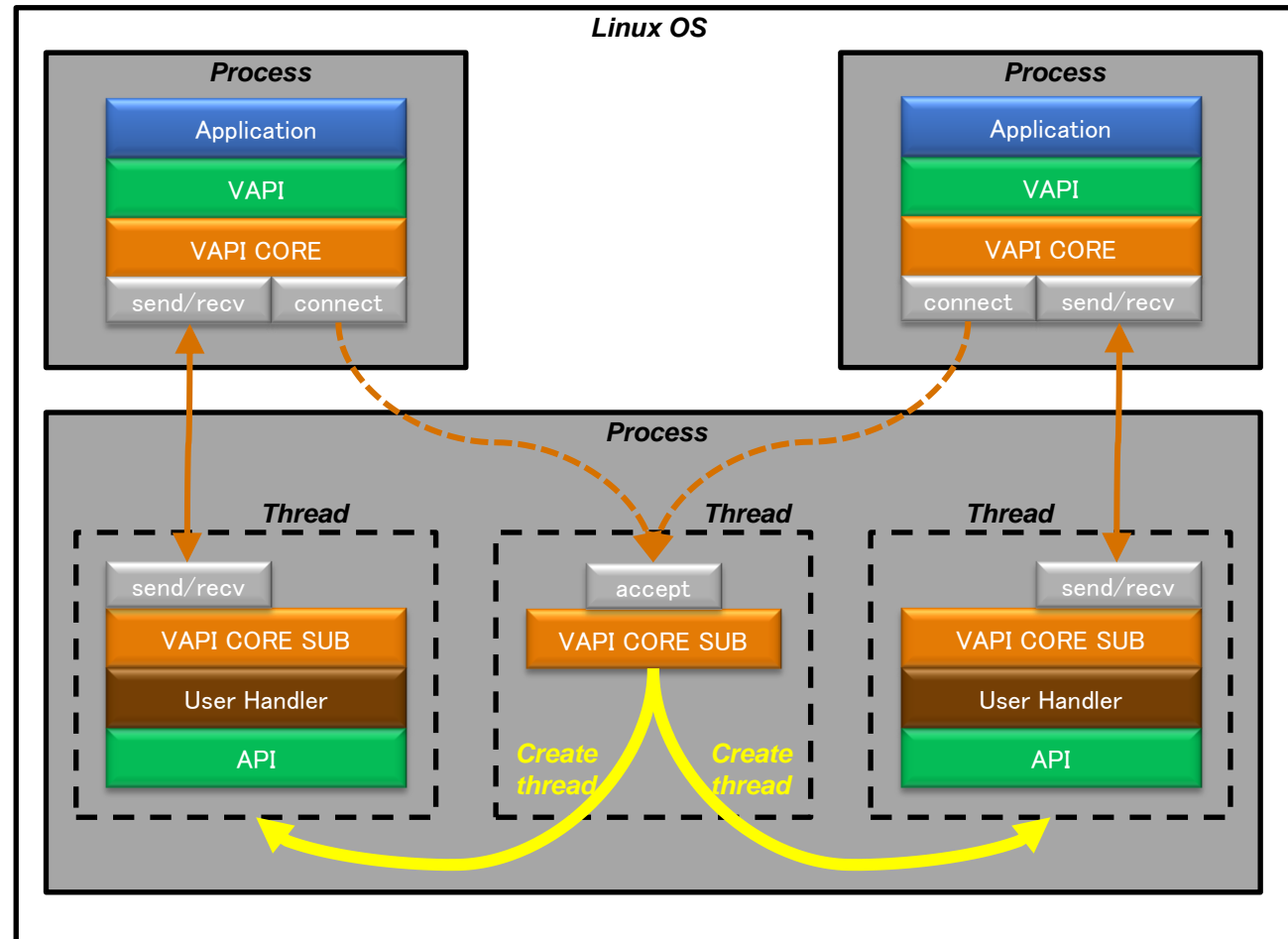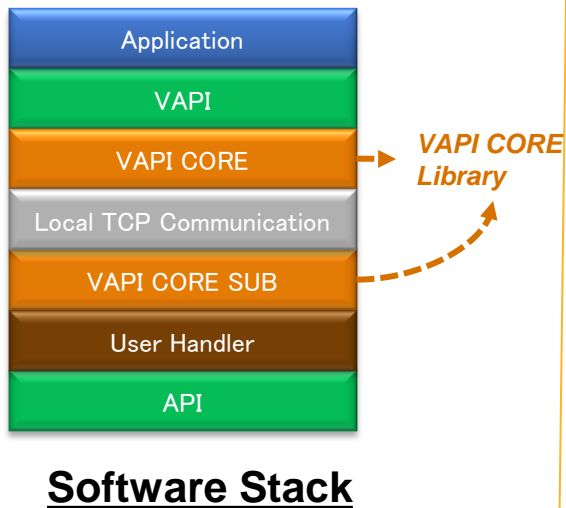VAPI CORE is a lightweight IPC (Inter Process Communication) library to execute APIs of other processes on the Linux OS, which is written by C language and distributed under the BSD (Berkeley Standard Distribution) license.

The architecture of VAPI CORE is simpler than RPC (Remote Procedure Call) or CORBA (Common Object Request Broker Architecture).

The basic architecture of VAPI CORE is shown in the next page.

The Basic Architecture.

Software Stack

Application
VAPI
VAPI CORE
Local TCP Communication
VAPI CORE SUB
User Handler
API

VAPI CORE Library

Linux OS

Process

Application
VAPI
VAPI CORE
send/recv | connect

Process

Application
VAPI
VAPI CORE
connect | send/recv

Process

Thread

send/recv
VAPI CORE SUB
User Handler
API

Thread

accept
VAPI CORE SUB
Create thread | *Create thread*

Thread

send/recv
VAPI CORE SUB
User Handler
API

The Basic Architecture of VAPI CORE IPC