Outline of Win32 NetwoRC.dll

App. A
Win32 Client

App. B
COM Client

[Feature]
1. Flat API (Win32 API).
2. Limited functions of NetwoRC provider.
3. Easy to use from a legacy application program.

[Feature]
1. Object oriented API (COM API).
2. An application can use all functions of NetwoRC provider.
3. Easy to use from an object oriented language.

Win32 DLL

Win32 Library
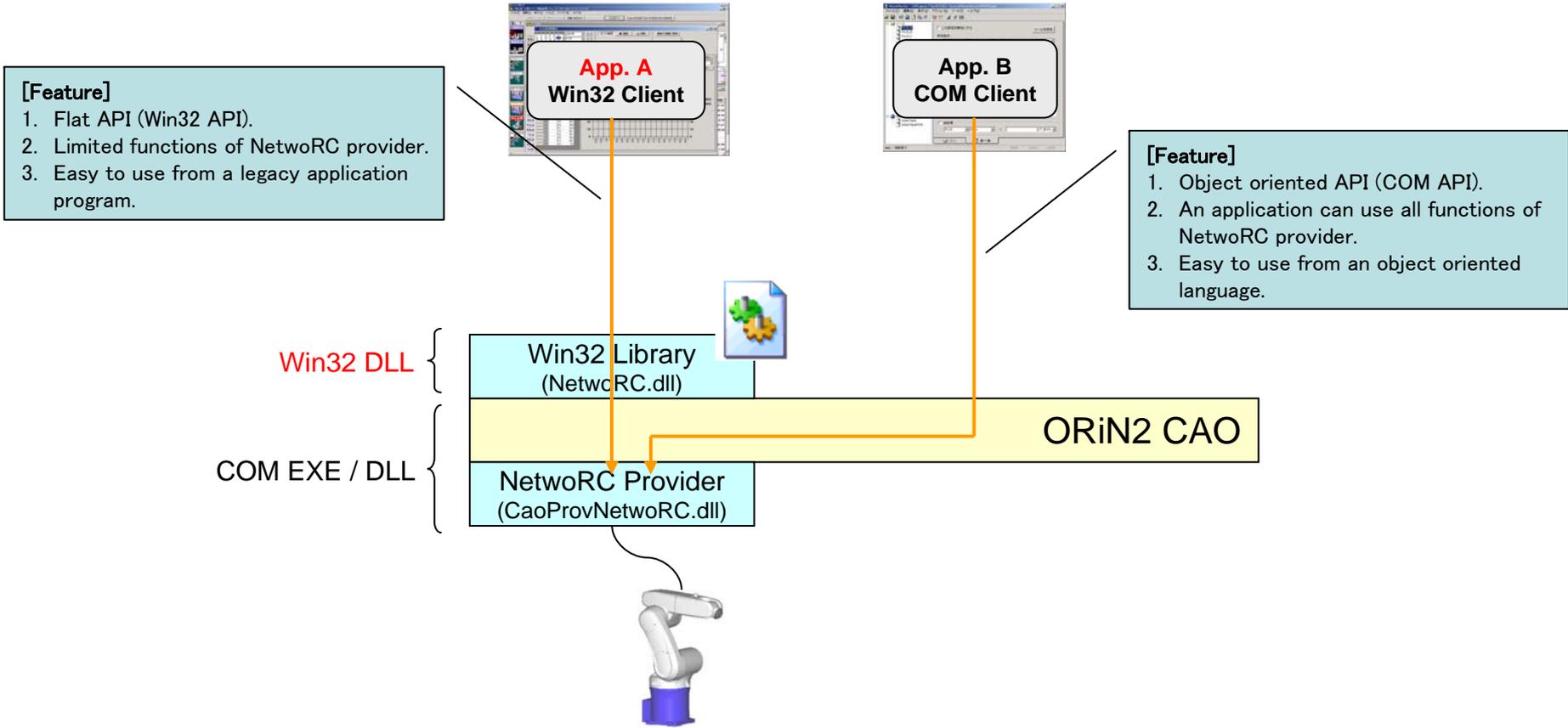(NetwoRC.dll)

ORiN2 CAO

COM EXE / DLL

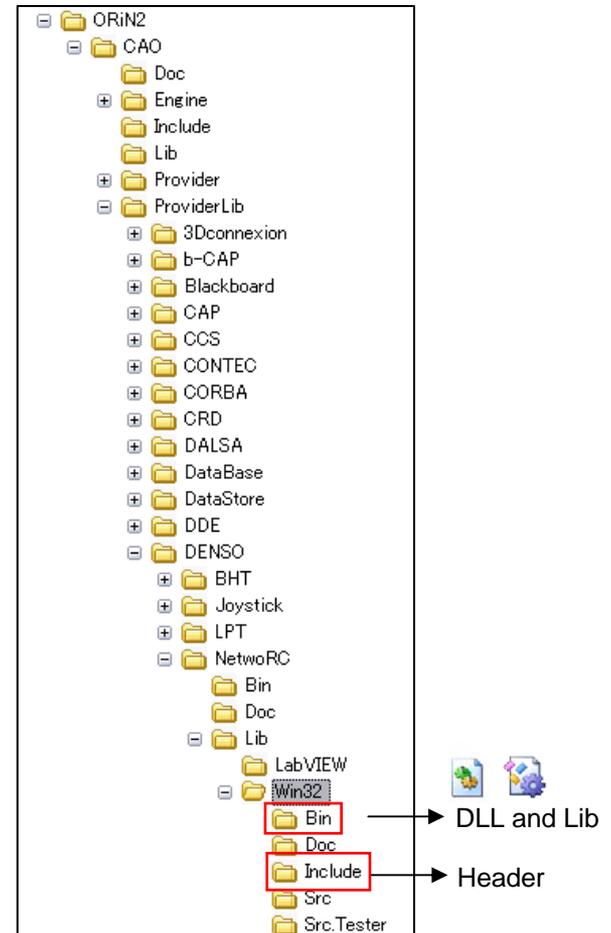NetwoRC Provider
(CaoProvNetwoRC.dll)
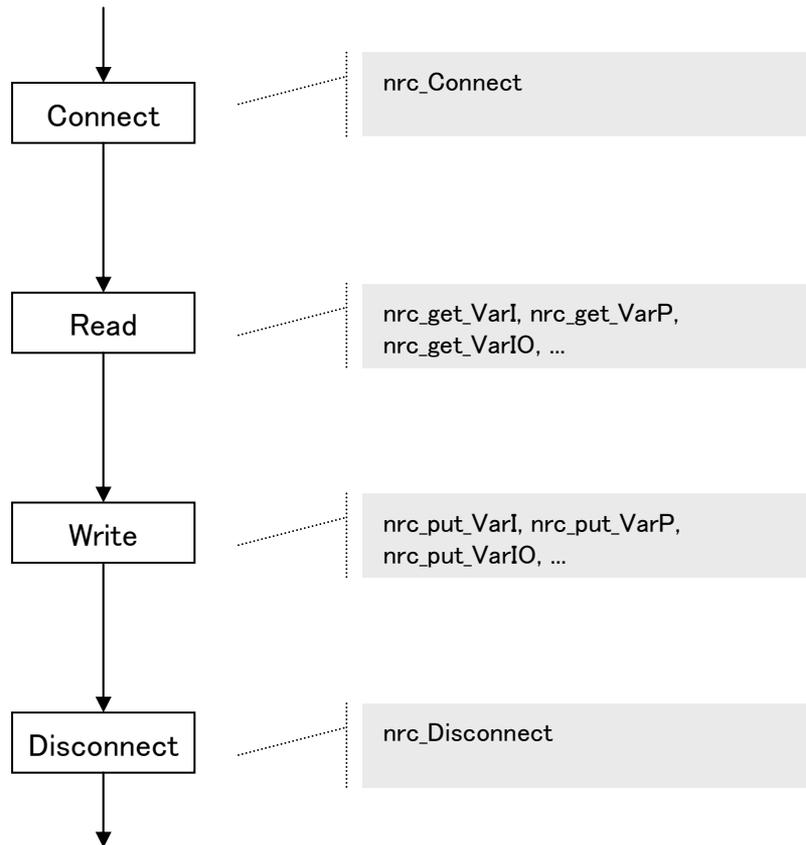
How to use Win32 NetwoRC.dll

1. Check the NetwoRC.dll library location.

   [Note] ORiN2 SDK 2.1.2 or later. (Not released yet)
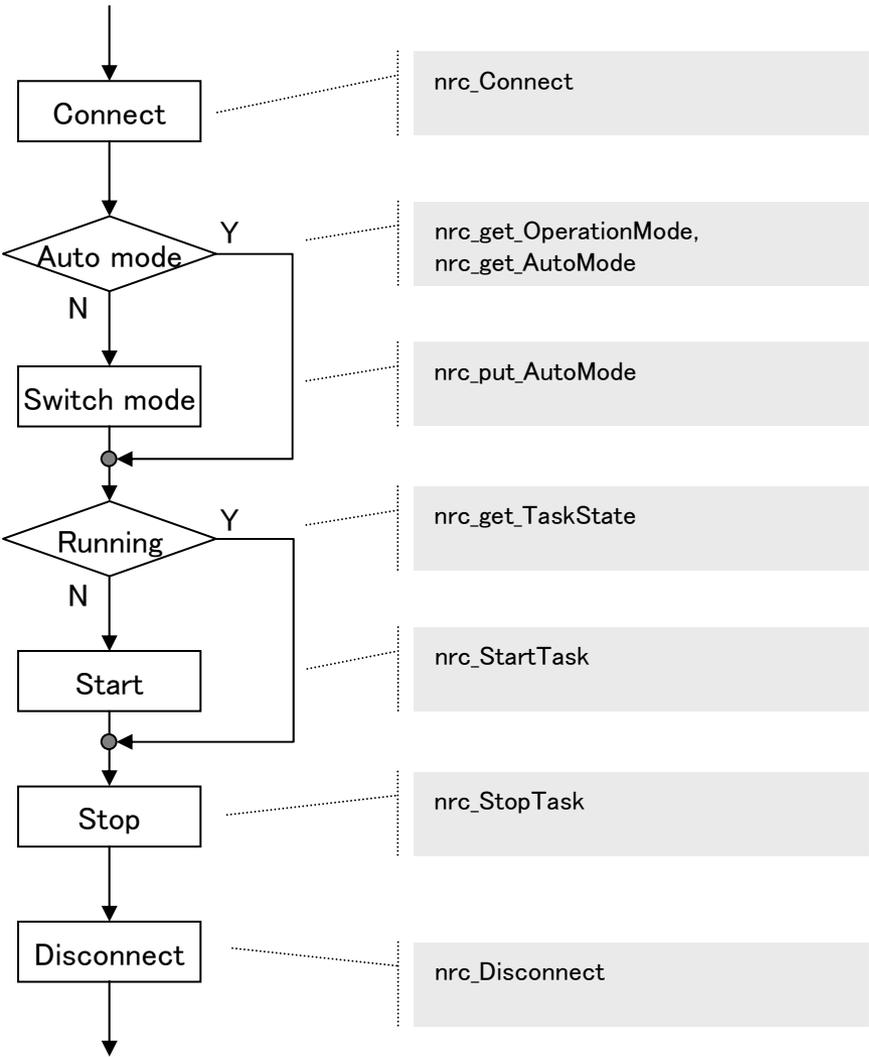
2. Just copy the library file into the user application directory.

3. Call the functions from the application in the same way as the other win32 DLLs.
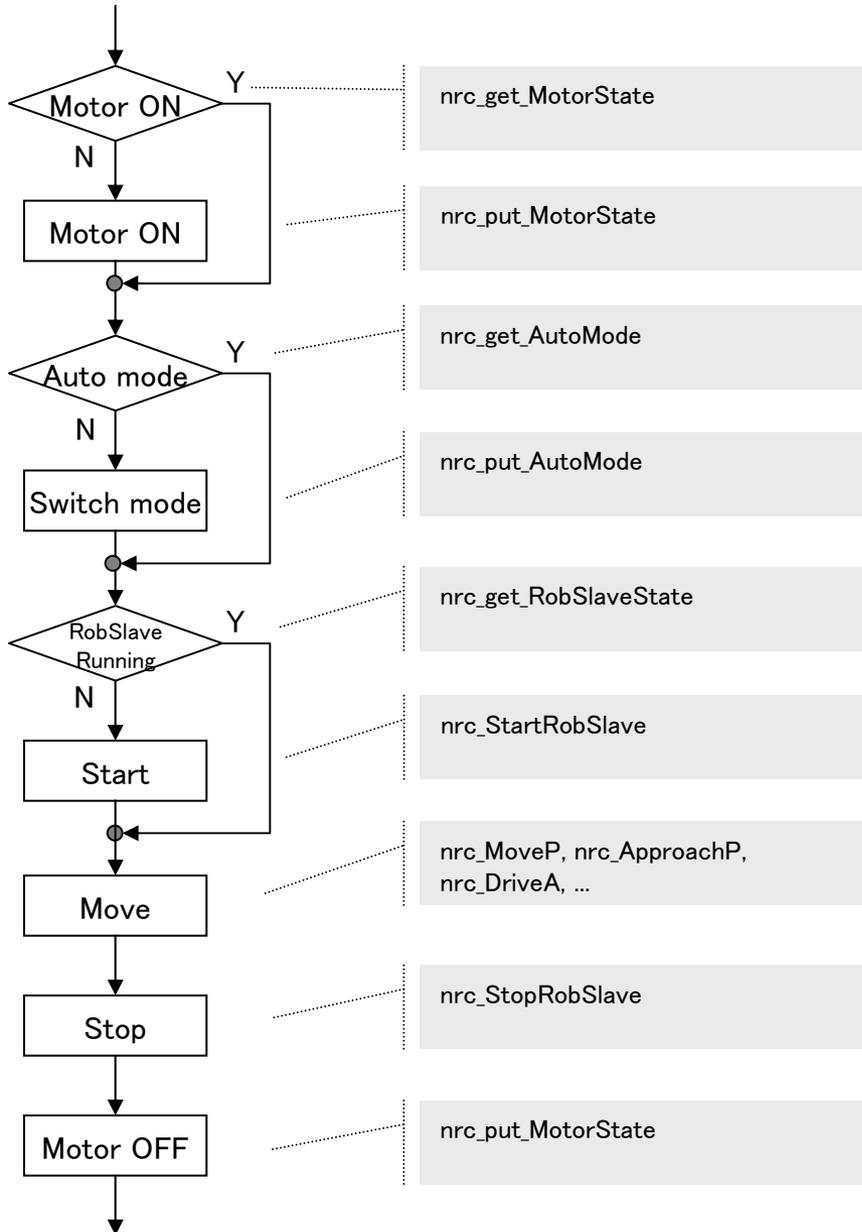
Sample Flow (1) Variable Read and Write

Connect	nrc_Connect
Read	nrc_get_VarI, nrc_get_VarP, nrc_get_VarIO, …
Write	nrc_put_VarI, nrc_put_VarP, nrc_put_VarIO, …
Disconnect	nrc_Disconnect

Sample Flow (2) Program Start and Stop

```
        │
        ▼
   ┌─────────┐ ............  nrc_Connect
   │ Connect │
   └─────────┘
        │
        ▼
      ╱╲          Y
    ╱     ╲ ──────────  nrc_get_OperationMode,
   ╱Auto mode╲          nrc_get_AutoMode
    ╲       ╱
      ╲  ╱
       │ N
       ▼
  ┌──────────┐ ........  nrc_put_AutoMode
  │Switch mode│
  └──────────┘
       │
       ●◄──────┘
       │
       ▼
      ╱╲          Y
    ╱     ╲ ──────────  nrc_get_TaskState
   ╱ Running ╲
    ╲       ╱
      ╲  ╱
       │ N
       ▼
   ┌───────┐ ..........  nrc_StartTask
   │ Start │
   └───────┘
       │
       ●◄──────┘
       │
       ▼
   ┌───────┐ ..........  nrc_StopTask
   │ Stop  │
   └───────┘
       │
       ▼
  ┌──────────┐ ........  nrc_Disconnect
  │Disconnect│
  └──────────┘
       │
       ▼
```

Sample Flow (3) Robot Motion

Sample Flow (4) Robot Calibration

Robot Motion
.... [Note] Please refer Sample flow (3).

Measure

Calibrate Robot
.... nrc_Calibrate

Disconnect
.... nrc_Disconnect

Restart Controller
.... [Note] The calibrated parameters are enabled after restarting the robot controller.