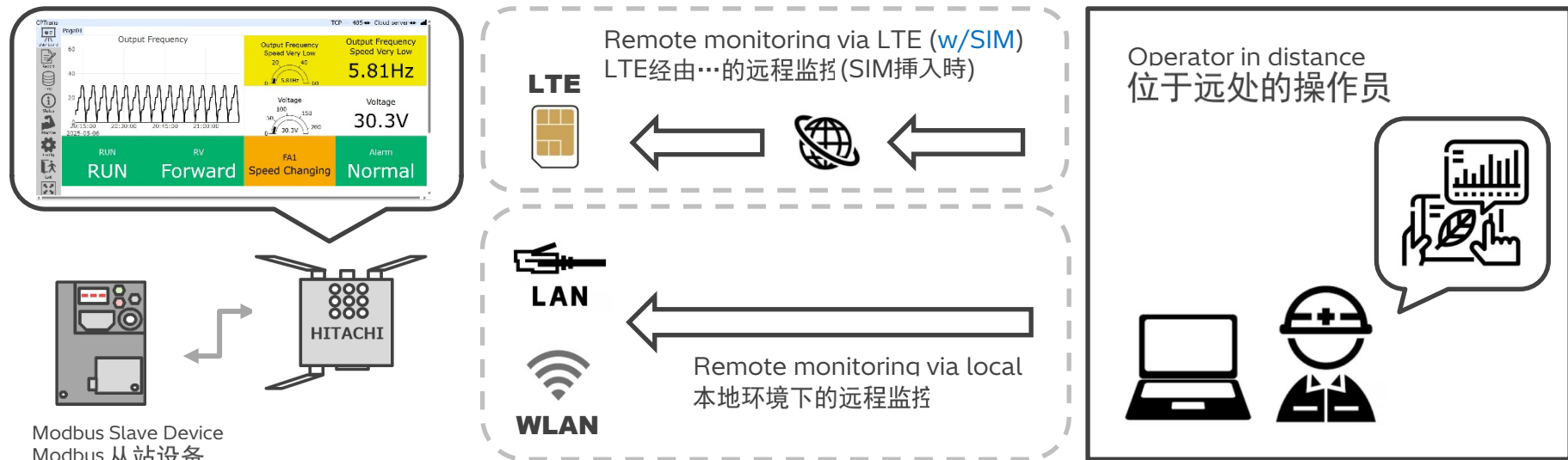


1. Document Purpose



HITACHI

This document is prepared to understand how various functions can be prepared in CPTrans.
本资料是CPTrans 内部实现各种功能时的设置示例资料。



Note: Operation steps described in this document are all tested and checked by Hitachi team. However, due to update of software, Hitachi does not always guarantee that the described details are perfectly following to the latest condition.

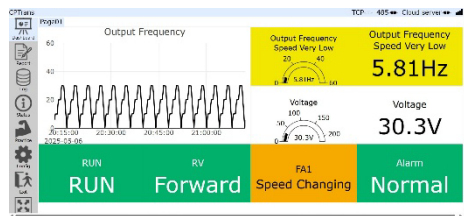
注：本资料的制作过程中，日立方已使用实际设备进行了确认测试，但因软件规格变更等原因，按所记载步骤未必一定能完成目的，可能出现此类情况。如遇问题，请联系就近的日立服务部门。

1. Document Purpose



HITACHI

In this lecture, learn how to collect data and prepare remote monitoring dashboard.
本资料中,CPTans将从现场设备获取数据, 并利用这些数据来准备远程监控画面的方法进行学习。



Remote monitoring dashboard
获取数据的仪表板显示



Auto data collection from local
来自现场设备的自动数据获取



2. Testing Condition



HITACHI

All testing are made under following component, service, and versions.
本资料中记载的各项试验，是在以下部件、服务、固件ver版本下执行的。



Hitachi CPTrans-MGW
Worldwide model



Hitachi WJ-C1 Inverter
C1-007SFC2
*As Modbus-RTU Slave



PC
(OS: Windows 11 Pro)



status

application info

appid	setten
version	0.5.104
revision	104

Remote Monitoring APP
(Version 0.5.104)

In case need to remote connect via LTE, kindly combine with below SIM.

- 1) IoT SIM cards: Fixed IP SIM providing with Public IP (No CGNAT SIM) which designed to allow access from internet.
- 2) Closed Network SIM cards: Fixed IP SIM providing with Private IP which allow Peer-to-peer connection between 2 SIM.
- 3) Combine with VPN tunnel services: VPN service which connect two client networks as Peer-to-peer connection.

如希望通过移动通信网进行远程连接，请使用以下SIM 的卡片。

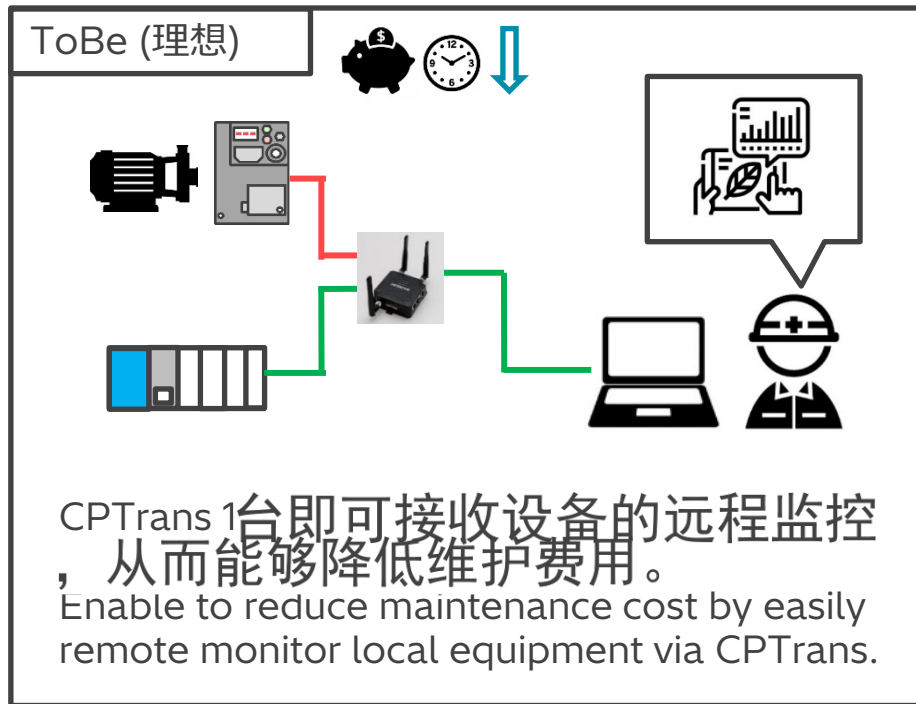
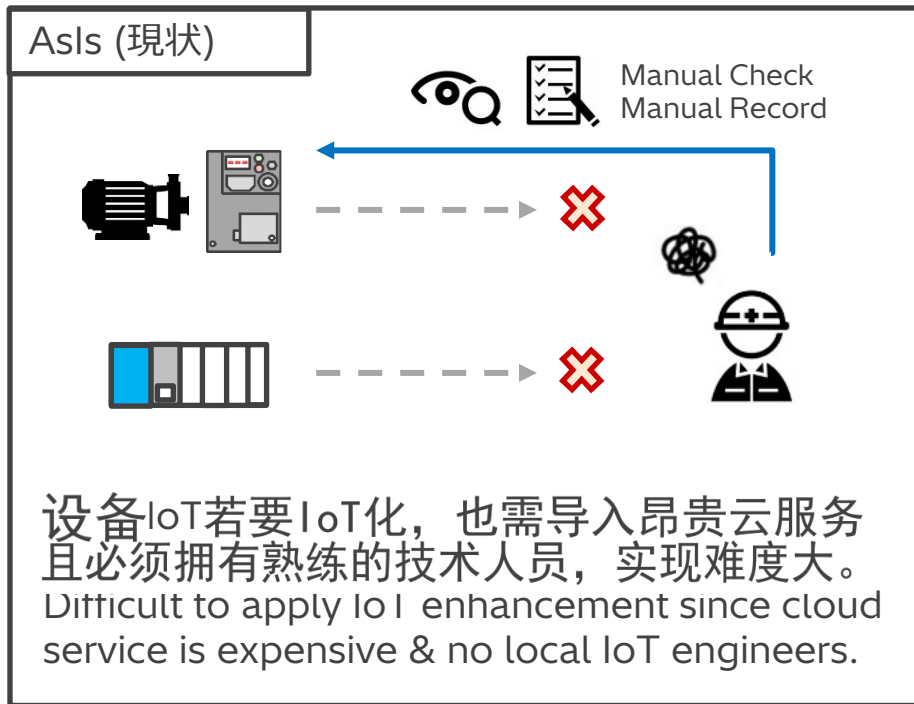
- 1) IoT用SIM卡片: MNO/MVNO的CGNAT不经过、直接向互联网上的Public IP提供给用户的服务器用SIM卡片
- 2) 閉域網SIM卡片: 固定的Private IP并提供、位于封闭网络中的2个SIM卡片之间能实现点对点通信的SIM卡片
- 3) VPN与服务并用的: 2个网络进行中继、作为点对点通信连接的VPN与网关服务并用的

3. Testing Goal



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User can easily apply IoT enhancement to target machine w/o cloud service nor program works.
通过活用本应用，无需使用云端等外部服务，也无需编程即可实现远程监控。

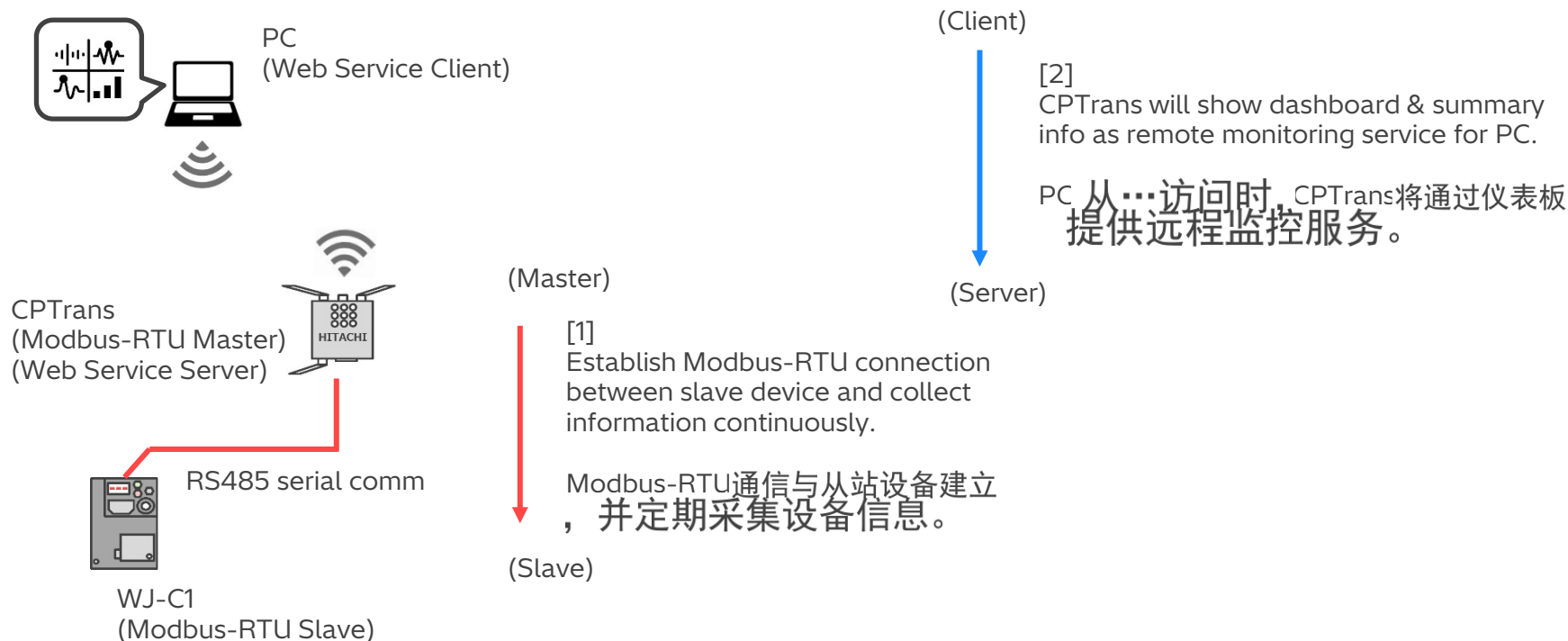


3. Testing Goal



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Following model is testing goal of this document
本资料以实现以下连接为目标实施。



3. Testing Goal (Dashboard)

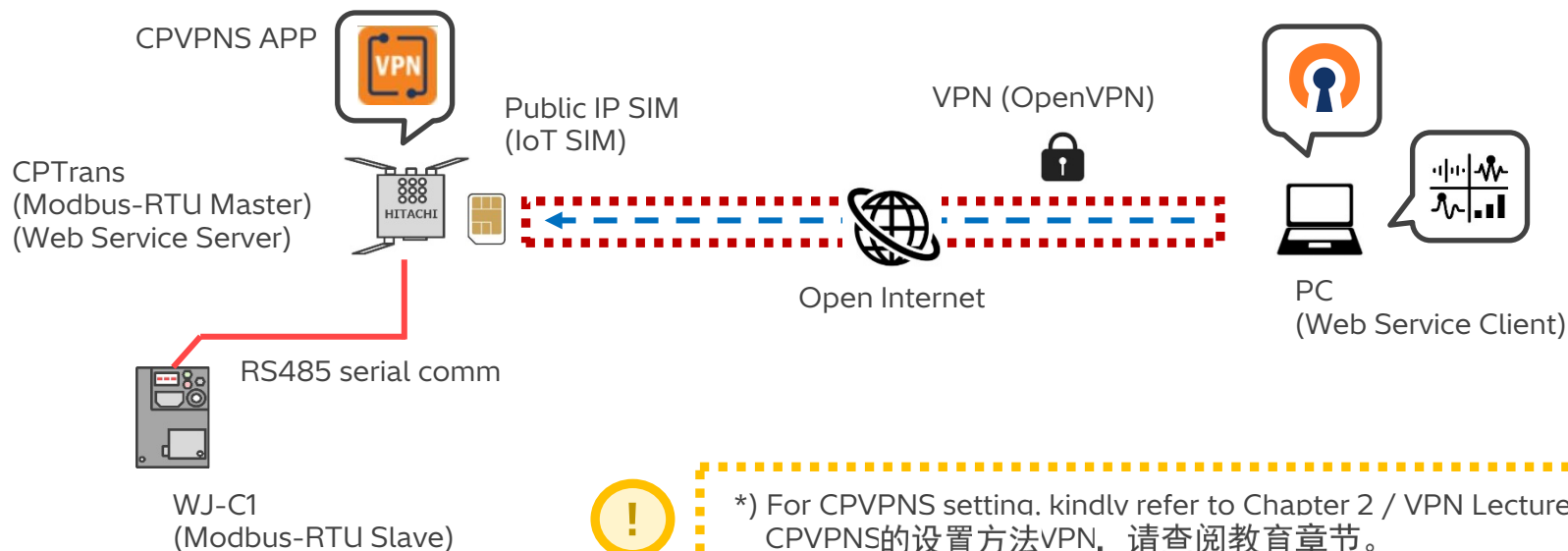


HITACHI

In case remote connect via Public IP SIM, following will be the network structure.

Public IP被赋予…的IoT SIM

连接时，网络构成如下。



*) For CPVPNS setting, kindly refer to Chapter 2 / VPN Lecture.
CPVPNS的设置方法VPN，请查阅教育章节。

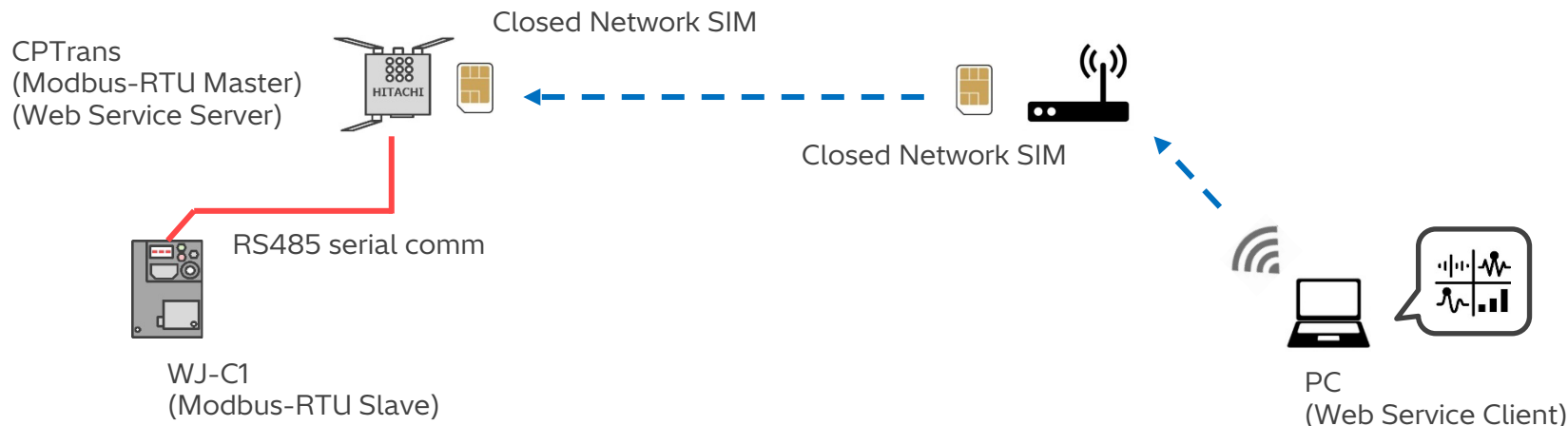
3. Testing Goal (Dashboard)



HITACHI

In case remote connect via Closed network SIM, following will be the network structure.

閉域網SIM 经由此连接时，网络构成如下。



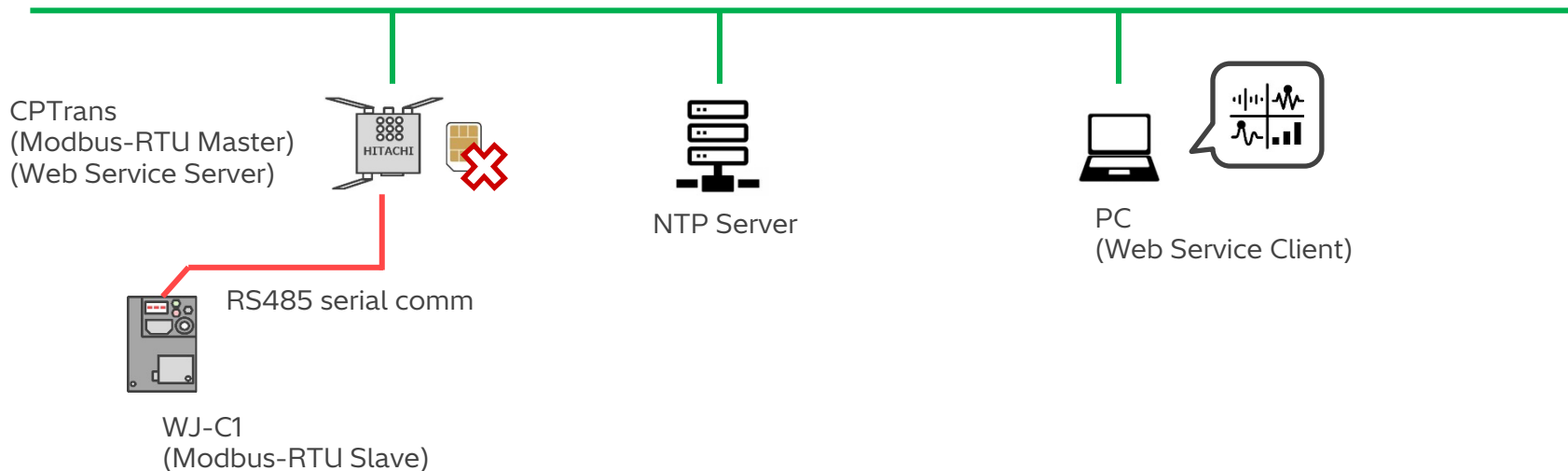
*) VPN is not mandatory, but kindly set appropriate NAT server setting if local device need to be access.
封闭网络连接时VPN的通信加密并非必须，但在访问末端设备时NAT请进行适当的设置。

3. Testing Goal (Dashboard)



HITACHI

In case locate in Intranet, following will be the network structure
LAN 在本地环境部署时，网络构成如下。



*) CPTrans will work only after time synchronization made. Kindly prepare NTP server in your network.
CPTrans在结束时间同步后启动。因此，在本地网络运行时NTP请另行准备服务器。