Vital Information Portal

Introduction to VIP Gateway

Vital **I**nformation **P**ortal

The Pioneer of Medical Cloud

· Efficiency
· Safety
· Quality

In the clinical IoT integration, the Vital Information Portal (VIP), which integrates various clinical medical equipment and physiological measurement equipment, automatically retrieves the data and uploads the data to the medical specialist system of Maya's Information , Timely and accurate records of clinical data, to enhance clinical care applications.

· VIP installations are greater than 12,000+

· The number of hospitals used exceeds 100+

· More than 350+ interface instrument types

Smart Hospital

Nursing Information System
● ICU Information System
● Eye Clinic Information System

Hemodialysis Information System
● Peritoneal Dialysis System
● HD Clinic Cloud

Respiratory Therapist Information System

Anesthesia Information System
● OP Room Information System
● OP Image Recording System

Connectable devices

Hemodialysis

Automatically receive Dialyzer data, such as: ultrafiltration rate, dialysate flow rate, and clearance, blood flow rate, dialysate temperature, venous pressure, dialysis time, blood pressure ... and so on.
Hemodialysis management system features: appointment management, dialysis records, physician order entry,dialyzer data, central monitor, report for inquiries and statistics, join hospital information system data.

Anesthesia

Automatically receive Anesthesia data, such as: NIBP, A-LINE, CVP, HR, BT, RR, EtCO2, SpO2, TV, O2, AIR, type of Anesthetic gas, concentration of Anesthetic gas... and so on.
Anesthesia clinical integration management system, mainly including preoperative, perioperative and postoperative three parts;
1.Preoperative evaluation and preparation for anesthesia and surgery,
2. Monitoring and recording maintenance of acceptable physiology during the perioperative period,
3. Conducting a post anesthesia evaluation, assessing patients for sequelae from anesthetic interventions and arranging for appropriate follow-up.

Ventilator

Automatically receive Ventilator data, such as: Ventilator mode, Tidal Volume set/ monitor, Ventilator rate set/total, Inspiratory Time/I:E ratio, Pressure Peak/ Plateau, Pressure Mean/ PEEP, Low M.V alarm/ Paw alarm, Sensitivity(Pressure/ flow)... and so on.
Respiratory care management system features: patient management, Ventilator data, clinical records of Ventilator Weaning, Chest Physical Therapy, respiratory care, join hospital information system data.

Blood Pressure Monitor

Including automatic sphygmomanometers in wards and tunnel sphygmomanometers in outpatient clinics.
Automatically receive and upload data, such as SBP, DBP, MAP, Pulse. which can be automatically captured and uploaded to application systems such as nursing information system and medical order system between clinics.

Patient Monitor

Automatically receive and upload data, such as NIBP, SpO2, Pulse, ECG, RR,Temp, EtCO2.

Body Height and Weight Scale

Automatically receive and upload Body Height and Weight data.

Tonometer

Automatically receive and upload data, such as IOP, adjusted IOP, CCT.
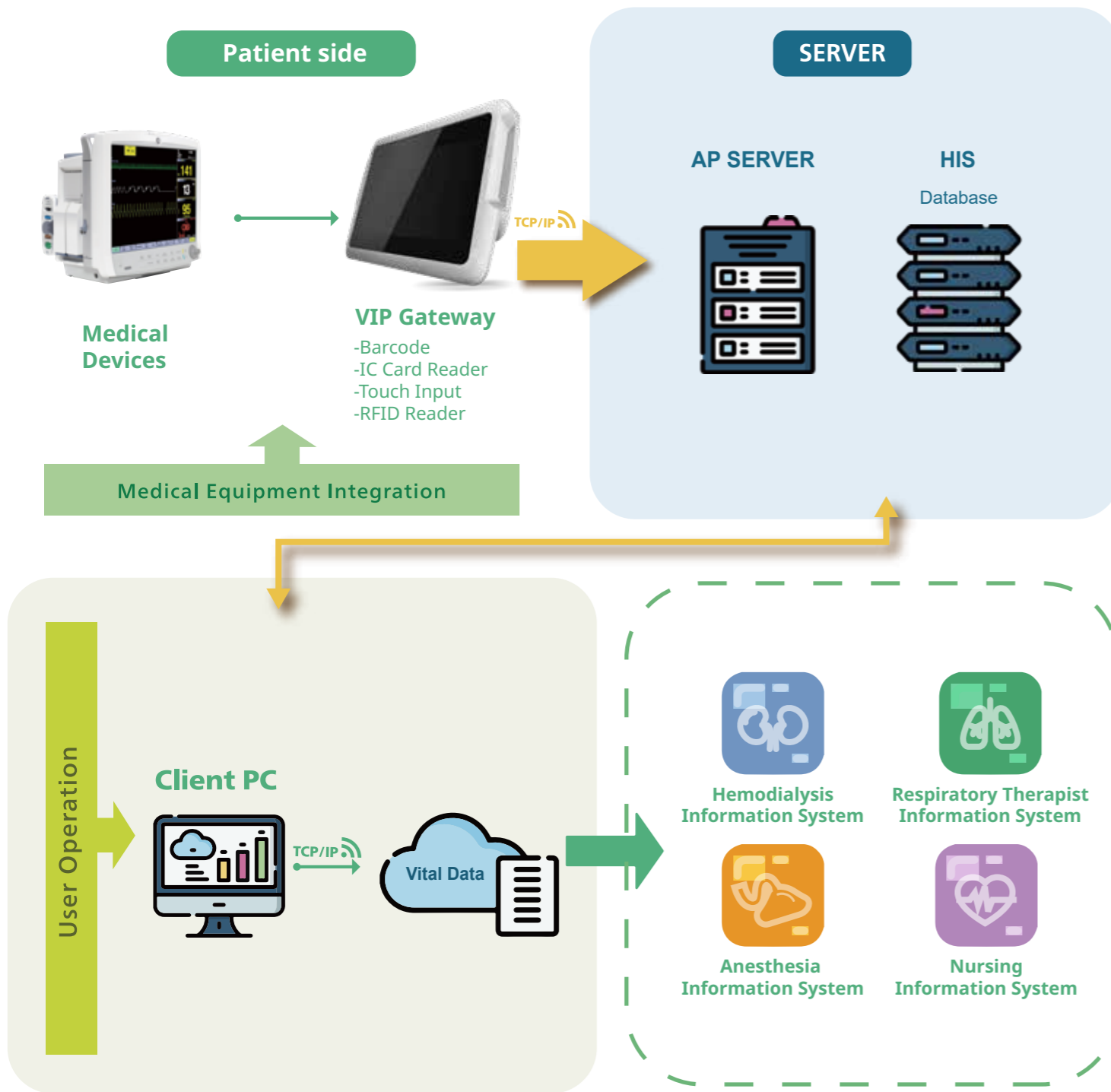
Blood Purification Devices

Automatically receive and upload data, such as , blood flow rate, dialysate flow rate, per-dilution flow rate, venous pressure.
The device delivers all therapy modalities of CRRT and therapeutic plasma exchange (TPE), including: CVVHDF, CVVHD, CVVH.

Noninvasive Cardiac monitor

Automatically receive and upload data, such as IOP, adjusted IOP, CCT.

System Architecture

Patient side

Medical Devices

VIP Gateway
-Barcode
-IC Card Reader
-Touch Input
-RFID Reader

TCP/IP

Medical Equipment Integration

SERVER

AP SERVER

HIS
Database

User Operation

Client PC

TCP/IP

Vital Data

Hemodialysis Information System

Respiratory Therapist Information System

Anesthesia Information System

Nursing Information System

- It's easy to achieve the integration of physiological information, low cost and the least impact on original system.

- Strengthen the security and accuracy of medical records, greatly improve work efficiency and improve medical quality.

- It can record the outpatient visit time of patients to achieve the effective time management of the hospital.

- Provide paperless data management to reduce resource waste and implement environmental protection, energy saving and carbon reduction.

- For the individual instruments to provide automatic upload the parameters of output of instrument.

- Use standard exchange format (HL7) of medical information.

- Upload data via the network (Wi-Fi, Ethernet).

- Up to 4 hours operation with battery. Contains storage device to store data over 24 hours continually.

- Use VIC (Vital Information Central) to manage data of remote VIP (optional).

- You can input patient ID via barcode reader, IC card reader or touch input .

Medical Devices

RS232
USB
Ethernet
Bluetooth

Get patient ID
1. Barcode
2. IC Card Reader
3. Touch Input
4. RFID Reader

WiFi / LAN

Vital Information Central

Data filter

Database

HL7