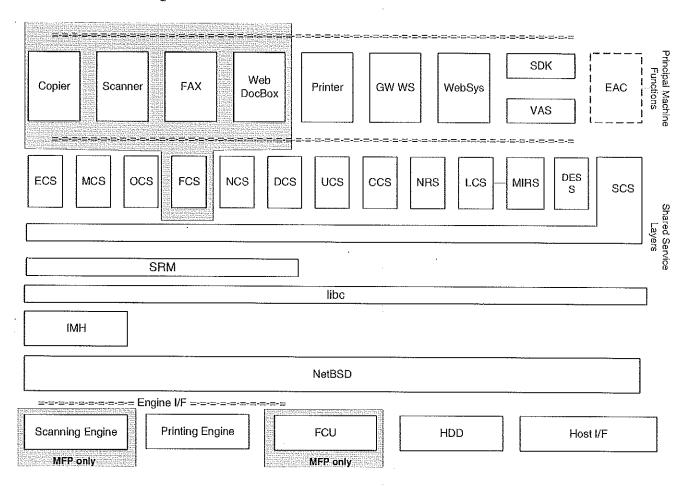
4-2 Software Configuration



Software Configuration

4-2-1 Shared Service Layers

ECS (Engine Control Service)	Controls engine operations for scanning and printing.
MCS (Memory Control Service)	Manages the memory in the Image Memory area (incl. the HDD),
	as well as compression/decompression.
IMH (Image Memory Handler)	Transfers data between the controller and engine.
OCS (Operation Panel Control	Controls the panel LEDs, monitors panel keys and manages panel
Service)	objects and display messages.
NCS (Network Control Service)	Controls host I/F and protocol control (transport, session).
FCS (FAX Control Service)	Exchanges data and commands with the FCU (FAX Control Unit),
	which manages and controls FAX communication and
	telecommunications lines.

Device Security

SCS (System Control Service) Manages the status of all internal operations performed on or by

the system as a whole, and controls the switching of the LCD screen as well as the operational link between SP settings and

machine operations.

SRM (System Resource

Manager)

In addition to managing hardware resources, this module mediates

control of the printer engine, scanner engine and memory

resources during the image creation process.

DCS (Delivery Control Service) Controls all non-FAX transmission/reception of e-mail as well ass

the forwarding of image data to servers and folders.

MIRS (Machine Information

Report Service)

Controls the sending of machine configuration settings by e-mail

UCS (User Control Service)

CCS (Certification Control

Service)

Manages the Address Book data.

Mediates communication between the principal machine function and external charge device during the authentication process, as

well as the charge-related processing (e.g. counters).

NRS (New Remote Service) Controls remote correspondence with RC Gate (e.g. diagnostics,

firmware update, settings changes).

LCS (Log Control Service) Controls the MFP/LP's access logs (e.g. Address Book, Document

Server, MFP/LP functions).

DESS (Data Encryption Security

Service)

Controls the encryption and decryption functions.

4-2-2 Principal Machine Functions

Copier Activates the scanning engine, which reads the original and then sends the

data on to the controller to be printed out from the printing engine. Secondary data, such as that used for access control, is handled from the operation

panel.

Printer Receives image data through the host interface, which then sends the data to

the controller. Also contains a printer language processing subsystem (e.g. RPCS) that converts the printer language into image data, which is then printed out from the printing engine. Secondary data is handled via the

connection protocols between the driver UI and the host I/F.

If the front SD/USB option is being used, download image files from the SD/USB memory device, convert the image data into print image data, and

print it from the printing engine.

Scanner Activates the scanning engine, which reads the original and then sends the

data to a PC via the host I/F. Scanning can be initiated from both the operation

panel and from a PC via a TWAIN driver.

Device Security

If the front SD/USB option is being used, store the image data scanned from

the printing engine on the SD/USB memory device.

FAX Activates the scanning engine, which reads the original and then sends the

data to the FCU to be sent as a FAX via a telecommunications line. Also

receives FAX data and prints it out from the printing engine.

Netfile As a server, GWWS provides some MFP/LP functionality to specific

(GWWS) network-connected PC utilities. This includes the ability to view and make

changes to user information and machine configuration settings, as well as to print out or perform other operations on documents stored on the MFP/LP. GWWS also acts as a client to external Web services, including transferring

the machine log data to specific log data collection utilities

WebSys A Web application that allows machine configuration settings to be viewed and

changed via a Web interface.

WebDocBox Allows operations to be peformed on Document Server documents stored in

the MFP (viewing, downloading, printing, deleting) via a Web interface.

SDK/VAS SDK: Applications provided by third-party vendors designed to function with

MFP/LP pricipal machine functions developed by Ricoh.

VAS: An MFP/LP API that standardizes the meanings of simplified commands

used by SDK applications when communicating with the MFP/LP.

EAC This module controls the TCP/IP command flow between the GW-API and

external controller connected to the MFP via the Gigabit Ethernet-compatible network I/F. The EAC allows the external controller to initiate MFP operations such as print jobs and scan jobs, as well as store Printer documents to the MFP HDD. In addition, this module also makes it possible to change some of the internal settings of the external controller from the MFP operation panel.

Note: This is only available on models that support an external controller.