

Data Sheet

FUJITSU Software ServerView® Suite integrated Remote Management Controller - iRMC S5

Comprehensive remote control of Fujitsu PRIMERGY and PRIMEQUEST servers

The **ServerView integrated Remote Management Controller iRMC S5** enables customers ensure a secure and safe IT environment. iRMC S5 helps in increasing security and system administrator's productivity with the introduction of Redfish API and new improved, secure user interface with hand held device support (tablets).

The remote management provides monitoring and management of Fujitsu PRIMERGY and PRIMEQUEST servers regardless of their system status – even in out-of-band operation. Implemented in a chip on the motherboard it integrates essential system management functions with extensive remote management functionality.

As an autonomous system on the system board of a PRIMERGY and PRIMEQUEST server, the iRMC S5 has its own operating system, its own web server, separate user management and independent alert management. The iRMC remains powered up even when the server is in stand-by mode. Communication is carried out via a LAN connection, which can be shared with the Fujitsu PRIMERGY server or used exclusively for system management.

iRMC S5 gives administrators or service technicians access to the server for extensive control, even in decentralized, heterogeneous environment. In the event of server problems, routine tasks and maintenance can be carried out efficiently. In addition to the free embedded functions, an iRMC S5 advanced pack can be purchased

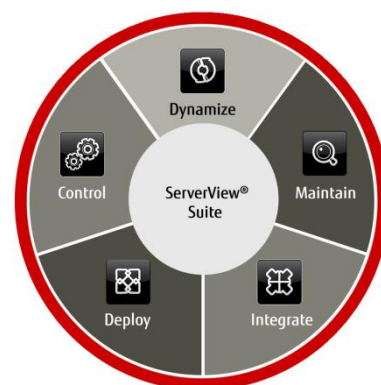
to enable graphical console re-direction - Advanced Video Redirection (AVR) via HTML5 (Java free) - and the use of multiple remote storage connections.

iRMC S5 combines long-term expertise and practical experience gained with its successful predecessors. On top of the proven technology the iRMC S5 features additional functionality including:

- Monitoring of server-internal HDDs, PCIe SSDs and RAID configurations also in agentless out-of-band operation,
- Video capturing as a useful tool for remote troubleshooting,
- Virtual Media for remotely connecting multiple CD/DVD, HDD or images or physical drives, as well as

Beyond making it possible to manage a server out-of-band, the enhanced functionality of the iRMC S5 - which comes with an integrated SD card - allows for comprehensive lifecycle management of a PRIMERGY server. As life cycle management is integrated ("embedded") in and entirely controlled by the iRMC, it is called "embedded Life Cycle Management (eLCM)". Reduce vulnerability and ensure chain of trust for provisioning having eLCM preloaded on server with HTTPS support

Some eLCM functions require the iRMC to communicate and cooperate with the ServerView Agentless Service running on the managed server. Communicating with the ServerView Agentless Service also provides the iRMC S5 with additional host OS information.



ServerView®

Resourceful Server Management

FUJITSU Software ServerView® Suite provides all the necessary elements for professionally managing server systems during its lifecycle. For information on other ServerView products please visit www.fujitsu.com/fts/serverview



Features and Benefits

Main features	Benefits
■ Universal system management solution for all Fujitsu PRIMERGY and PRIMEQUEST servers ■ New modern, interactive web user interface based on HTML5 ■ Comprehensive control and analysis of Fujitsu PRIMERGY and PRIMEQUEST servers ■ Secure data connections via HTTPS ■ iRMC S5 conforms to DMTF SPMF Redfish industry standard ■ Extensive power management inclusive pre-defined profiles and a scheduled mode to switch between profiles automatically ■ Monitoring of server-internal storage components ■ Efficient graphical console redirection (AVR) via HTML5 (Java free) ■ Video Capturing and Virtual Media support ■ embedded Lifecycle Management (eLCM) with preload on SD option* ■ Customer Self Service (CSS) concept ■ Profile Management via RESTful API	■ Uniform user interface and operational behavior ■ New web UI provides a secure and intuitive user interface enabling ease of management ■ Around-the-clock control, independent of the server status ■ Enhanced communication security based on HTTPS / SSH. ■ Support for unified API enables customer to increase productivity and provides a secure management approach ■ Simplified power management that adjust power consumption according to the current usage or to the given power policy ■ Check of server-internal HDDs, PCIe SSDs and certain RAID configurations also in out-of-band operation ■ No need for expensive external KVM switches ■ Provides a useful tool for remote troubleshooting with video capturing and video media Supports remote connection of multiple CD/DVD, HDD or FDD images or physical drives located elsewhere in the network ■ Supports routine management of system administrators with simplified, highly integrated and automated server management processes ■ Avoid time-consuming and cost-intensive call-outs ■ Server profile deployment over many servers

Note: Depending on the server model or operating system used certain management functions may differ or may not be available.
*eLCM preload option is only available when shipped from the factory.

iRMC S5 Web Server

Language admin Help

System Logs Tools Settings

System Board

Power

Cooling

Mass Storage

Software

Network

AIS Connect

Model Name: PRIMERGY RX2530 M5
Host Name: RX2530M5-44
Asset Tag: System Asset Tag
iRMC Time: Thu, Mar 28, 2019 4:34 PM

System Board

CPU

Status	Socket	CPU Model	Cores (enabled / total)	Threads (enabled / total)	ID	CSS
OK	CPU1	Intel(R) Xeon(R) Gold 6240 CPU @ 2.60GHz	18 / 18	36 / 36		—
OK	CPU2	Intel(R) Xeon(R) Gold 6240 CPU @ 2.60GHz	18 / 18	36 / 36		—

Period Select... Delete History Save

Memory Modules

Memory Mode 1LM

Status	Socket	Type	Config	Size [GB]	Actual/Max Frequency [MHz]	ID LED	NVM	CSS
OK	DIMM-1A	DDR4/RDIMM	Mirrored module	8	2133 / 2133	ID	—	✓
OK	DIMM-2A	DDR4/RDIMM	Mirrored module	8	2133 / 2133	ID	—	✓
OK	DIMM-1B	DDR4/RDIMM	Mirrored module	8	2133 / 2133	ID	—	✓
OK	DIMM-2B	DDR4/RDIMM	Mirrored module	8	2133 / 2133	ID	—	✓
OK	DIMM-1C	DDR4/RDIMM	Mirrored module	8	2133 / 2666	ID	—	✓

integrated Remote Management Controller - iRMC S5

iRMC S5 - Hardware for Remote Management

Remote configuration and maintenance minimize time-consuming and cost-intensive call-outs.

iRMC S5 permits system control, diagnosis, configuration and server restarting by remote access via the integrated web interface – even if the operating system or hardware fails. iRMC S5 communicates directly via I²C with the hardware sensors, such as in fans. Errors can be analyzed and often also fixed right away. The system administrator is notified by email or SMS.

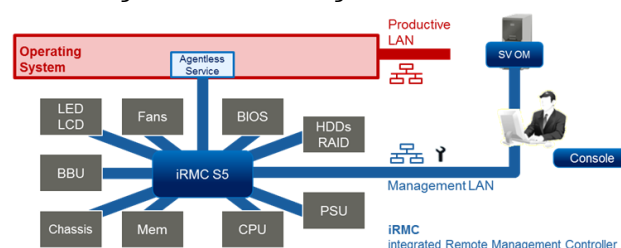
iRMC S5 allows for remote monitoring of server-internal HDDs, PCIe SSDs and RAID configurations also in agentless out-of-band operation, it enables video capturing as useful tool for remote troubleshooting and offers Virtual Media for remotely connecting multiple CD/DVD, HDD or FDD images or physical drives. Genuine headless system operation without a local mouse and keyboard is also possible.

Ensuring maximum security the iRMC S5 offers enhanced security functions, including high encryption and efficient user authentication.

iRMC S5 also performs the functions of a Baseboard Management Controller (BMC). It is thus able to take over functions such as power management or reading the System Error and Event Log (SEL) regardless of the system status.



iRMC S5 – integrated Remote Management Controller



Implementation of connections from iRMC S5 to HDDs, PCIe SSDs and RAID depends on the individual Fujitsu PRIMERGY system.

Software	Windows Server 2016 Windows Server 2019 RHEL 7.6 RHEL 7.7 RHEL 8 GA RHEL 8.1 SLES12 SP4 SLES12 SP5 SLES15 GA SLES15 SP1 ESXi 6.5 Update 2 ESXi 6.7 Update 1
Hardware FUJITSU Server PRIMERGY models	RX2530 M5, RX2530 M4, RX2540 M5, RX2540 M4, RX4770 M5, RX4770 M4, CX2550 M5, CX2550 M4, TX2550 M5, TX2550 M4, RX2520 M5, RX2520 M4, CX2560 M5, CX2560 M4, CX2570 M5, CX2570 M4, TX1330M4, TX1320M4, TX1330M4, PQ3800B, PQ3800B2
Controller	PRAID EP440i, PRAID EP520i, PRAID EP540i, PRAID EP580i(Supported on Out of Band)
Administrator System	
Software	Microsoft Internet Explorer Version from Version 11 and Edge (Windows) Firefox LTS (Linux)
Hardware	Firefox, Google Chrome(recommended) Standard PC, LAN

iRMC S5 – Technical data

Graphics Modes	Resolution	Refresh rates [in Hz]	Max. color depth [bits]
	640 x 480 (VGA)	60; 75; 85	32
	800 x 600 (SVGA)	56; 60; 72; 75; 85	32
	1024 x 768 (XGA)	60; 70; 75; 85	32
	1152 x 864	60; 70; 75	32
	1280 x 1024 (UXGA)	60; 70; 75; 85	16
	1280 x 1024 (UXGA)	60	24
	1600 x 1200 (UXGA)	60; 65	16
	1680 x 1050	60	16
	1920 x 1080	60	16
	1920 x 1200	60	16
Only VESA-compliant graphics modes are supported.			
Memory	512 MB attached memory		
USB	USB 1.1/USB 2.0		
IPMI	IPMI 2.0		
DCMI	DCMI 1.5		
Network	Shared / dedicated 100/1000 MBit/s IPv4 and IPv6 support		

Notes:

- There may be import restrictions for some countries due to the high encryption.
- Depending on the server model or operating system used certain management functions may differ or may not be available.
- Not all functions described in this document will be available with the first release

iRMC S5 – System Requirements

Managed Server

Standard Functions (I)

Browser Access

The iRMC S5 features its own web server, which can be accessed from the management station with a standard web browser. All sensor information, such as fan speeds, voltages, etc., and the complete configuration of the iRMC S5 are made available to administrators via the web interface.

Security (SSL/TLS, SSH)

Secure access to the web server and secure graphical console redirection including mouse and keyboard can be provided over HTTPS. An encrypted connection protected by using SSH mechanisms can be set up and configured to access the iRMC S5 using the Remote Manager. Incorrect logins will be logged. The Remote Manager is an alphanumeric user interface for the iRMC S5. With the new web interface only HTTPS would be supported and links on HTTP would be re-directed to HTTPS ensuring secure access.

ServerView Operation Manager Integration

The ServerView agents detect the iRMC S5 and automatically assign it to the relevant server. This means that it is possible to start the iRMC web user interface and text console redirection using the Remote Management Front end directly from ServerView Operations Manager.

Communication between the iRMC S5 and the ServerView Agentless Service >=8.10 (as of ServerView Operations Manager >=8.0 (Windows) 8.10 Linux) allows for enhanced out-of-band management of PRIMERGY servers.

Power Management

Irrespective of the system status, the following options for powering the managed server up or down from a remote workplace are provided:

- via the iRMC S5 web interface
- via the *Power Control* menu of the AVR window
- via the Remote Manager and the command line interface (CLI)
- with a script

With this, a managed server can be powered up, a power cycle can be initiated or it can be shut down gracefully or instantly (power button override), e.g. if the operating system no longer responds. In addition, an immediate or graceful reset (reboot) can be initiated.

Power Consumption Monitoring

To monitor system power consumption via the web interface several reports are provided. You can choose between reports for a single day, for a month or a year - up to five years. This would require redundant power supply supported on the chosen platform. These reports are available through Redfish and DCMI API.

Note: The power consumption history is not shown in iRMC WebUI and this would be available in future release.

Power Consumption Control

iRMC S5 allows comprehensive power consumption control on the managed server. In addition, you can specify the mode that the iRMC uses to control power consumption:

- **O/S controlled:**
Power consumption is controlled only by the operating system of the managed server.
- **Minimum Power:**
The iRMC S5 controls the server to achieve the lowest possible power consumption. In this event, system performance is not always ideal.
- **Scheduled:**
Allows the detailed specification of the schedules and modes (*O/S controlled, Minimum Power, Power Limit*) iRMC S5 uses to control the power consumption on the managed server.
- **Power Limit:**
Restricts the max. power consumption of the managed server

You can switch between these modes as required.

Note: Above settings are CPU specific and are not available for all CPU types and Fujitsu PRIMERGY servers.

Customer Self Service (CSS)

Not all components of a Fujitsu PRIMERGY server have to be replaced by Service. There are components you can replace on your own. They are marked in the iRMC S5 web interface and this information is provided in ServerView Operations Manager as well. In addition, error list of the System Event Log (SEL) shows for every event whether it has been triggered by a CSS component.

Text Console Redirection

You can start a Telnet/SSH session to the iRMC S5 from the ServerView Remote Management Frontend. This calls the Remote Manager, via which a text console redirection session can be started, power management carried out, the error event log read or sensor information queried. Beside Telnet there is support for SOL (serial over LAN) and SSH (secure Shell).

Basic functions of a BMC

iRMC S5 supports the basic functions of a BMC such as voltage monitoring, event logging and recovery control.

"Headless" System Operation

The managed server does not require a mouse, monitor or keyboard to be connected. The benefits of this include lower costs, far simpler cabling in the rack and increased security.

Identification LED

To facilitate identification of a system, for instance if it is installed in a fully populated rack, you can activate the identification LED from the iRMC S5 web interface.

Global error LED

A global error LED informs you of the status of the managed system at all times and shows the CSS (Customer Self Service) status.

Standard Functions (II)

Power LED and S5 LED

The power LED informs you whether the server is currently switched on or off; the S5 LED informs you on the power status of the server.

LAN

In most Fujitsu PRIMERGY systems one LAN interface of the built-in NIC (network interface card) is reserved for the management LAN. In the remaining systems you have the option of configuring this LAN interface to

- reserve it for the management LAN
- set it up for shared operation with the system or
- make it completely available to the system.



The ports marked with a wrench symbol are assigned to the iRMC.

Network Bonding

Network bonding for the iRMC S5 is designed for redundancy in the event of Ethernet network adapter failures. Thus, iRMC S5 network management traffic is protected from loss of service which occurs due to failure of a single physical link.

The iRMC S5 supports the active-backup mode, i.e. one port is active until the link fails, and then the other port takes over the MAC and becomes active.

SNMPv1/v2c/v3 support

You can configure an SNMP service on the iRMC S5 which supports SNMPv1/v2c/v3 GET requests on SC2 MIB, MIB-2, OS.MIB, and STATUS.MIB.

When the SNMP service is enabled, information on devices such as fans, temperature sensors etc. are available via the SNMP protocol and can be viewed on any system running an SNMP Manager.

Command Line Interface (CLI)

Remote Manager, in the iRMC S5 provides a text based menu of basic management tasks.

Simple Configuration – interactive or script-based

The following tools are available to configure the iRMC S5:

- iRMC S5 web interface
- Server Configuration Manager
- UEFI BIOS Setup

It is also possible to carry out configuration with the Server Configuration Manager or IPMIVIEW using scripts. This means that it is possible to configure the iRMC when the server is first configured via ServerView Installation Manager. It is also possible to configure a large number of servers on the basis of scripts and profile management. SOA services can be used to integrate in to VMware, Nagios, etc

Local User Management

The iRMC S5 has its own user management function which allows up to 16 users to be created with passwords and to be assigned various rights depending on the user groups they belong to.

Global user management using a directory service

The global user IDs for the iRMC S5 are stored centrally in the directory service's directory. This makes it possible to manage the user identifications on a central server. They can therefore be used by all the iRMCs that are connected to this server in the network.

The following directory services are currently supported for iRMC S5 user management:

- Microsoft® Active Directory
- Novell® eDirectory
- OpenLDAP
- OpenDS

CAS-based single sign-on (SSO) authentication

The iRMC 4 supports Centralized Authentication Service (CAS) configuration, which allows you to configure the iRMC S5 web interface for CAS-based single sign-on (SSO) authentication.

The first time a user logs in to an application (e.g. the iRMC S5 web interface) within the SSO domain of the CAS service, they are prompted for their credentials by the CAS-specific login screen.

Once they have been successfully authenticated by the CAS service, the user is granted access to the iRMC S5 web interface as well as to any other service within the SSO domain without being prompted for login credentials again.

DNS / DHCP

iRMC S5 provides support for automatic network configuration. It has a default name and DHCP support is set by default so that the iRMC S5 gets its IP address from the DHCP server. The iRMC name is registered by the Domain Name System (DNS). Up to five DNS servers are supported. If DNS/DHCP is not available, the iRMC S5 also supports static IP addresses.

Standard Functions (III)

Power Supply

iRMC S5 is permanently powered and accessible, when the server is under power.

Alert Management

The alert management facility of the iRMC S5 provides the following options for forwarding alerts (alerting):

- Platform Event Traps (PET) are sent via SNMP
- Direct alerting by email

In addition, the iRMC S5 provides the ServerView agents with all relevant information.

Read, filter and save the System Event Log (SEL)

You can view, save, delete and forward the contents of the SEL to an external syslog server.

- by using the iRMC S5 web interface or
- by using the Telnet/SSH-based interface (Remote Manager) of the iRMC S5.

Read, filter and save the internal Event Log (iEL)

You can view, save, delete and forward the contents of the contents of the iEL to an external syslog server.

- by using the iRMC S5 web interface or
- by using the Telnet/SSH-based interface (Remote Manager) of the iRMC S5.

Prefailure Analysis (PDA)

iRMC S5 takes care of prefailure analysis for memory and fans.

Online Firmware Update

The iRMC S5's firmware can be updated online since there are two independent images of the firmware on the motherboard. In case an error occurs during flashing, the redundant module can always be used as a backup (Secure Flash).

Online BIOS Update

The BIOS of the PRIMERGY system can be updated online via the iRMC S5 web interface.

UEFI support / Secure Boot

Unified Extensible Firmware Interface (UEFI) is a specification for a software program that connects a computer's firmware to its operating system. UEFI has a firmware validation process, called secure boot. Secure boot defines how platform firmware manages security certificates, validation of firmware, and a definition of the interface (protocol) between firmware and the operating system.

RESTful API

eLCM supports RESTful API which allows an easy configuration of multiple systems via scripts.

Redfish

Redfish provides unified programmatic interface that can easily be controlled through scripts. iRMC S5 conforms to Redfish. Redfish API provides OEM extensions to configure iRMC settings.

This is an open industry standard specification and schema for datacenter and system management by DMTF (Distributed Management Task Force).

Monitoring of Storage components

HDD, SSD and RAID status of the managed server is shown in the iRMC S5 web interface. This includes Fujitsu's passive direct server- attached storage subsystem ETERNUS JX40 and JX60. Readout of the status is possible via IPMI. For further details please refer to the [White Paper](#).

Hand held Device Support

Supported device: Tablets

WebUI representation will be rearranged to a better usage in dependence of the used device.

- iOS Version >= 10.x with Safari only
- Android >= 5.x with Google Chrome only

Extended functions of the iRMC S5 iRMC S5 Advanced Pack

The iRMC S5 Advanced Pack enables Advanced Video Redirection (AVR) and Virtual Media functions.

Advanced Video Redirection (AVR)

Advanced Video Redirection with iRMC S5 offers the following benefits:

- Operation via a standard web browser.
Previous iRMC S5 firmware versions required a Java Runtime Environment to be installed in the management station.
User can select HTML5 (Java-free) prior to the start of an AVR session.
- System-independent graphical and text console redirection (including mouse and keyboard).
- Remote access for boot monitoring, BIOS administration and control of the operating system.
- AVR supports up to two simultaneous "virtual connections" for working on a server from a different location. It also reduces the load on the network by using hardware and video compression.
- Local monitor-off support:
It is possible to power down the local screen of the managed PRIMERGY server during an AVR session in order to prevent unauthorized persons from observing user input and actions carried out on the local server screen during the AVR session.
- Low bandwidth:
In the case of a reduced data transfer rate, you can configure a lower bandwidth (bits per pixel, bpp) in terms of color depth for your current AVR session.

Virtual Media

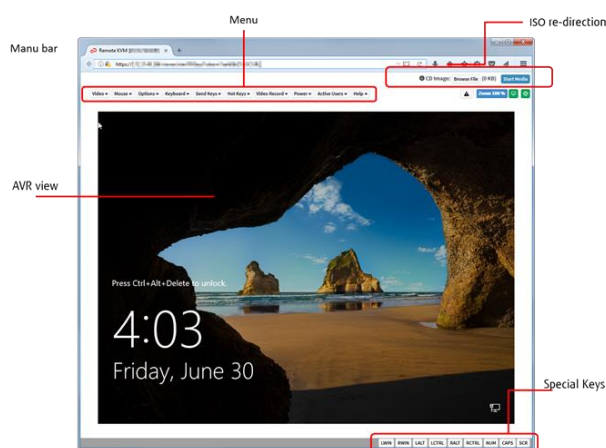
The Virtual Media functionality makes a "virtual" drive available which is physically located on a remote workstation or made available centrally on the network using the *Remote Image Mount* functionality.

The "virtual" drives available with Virtual Media are simply managed in much the same way as local drives and offer the following options:

- Read and write data.
- Boot from virtual media.
- Install drivers and small applications.
- Update BIOS from remote workstation.
(BIOS update via USB).

Video Capturing

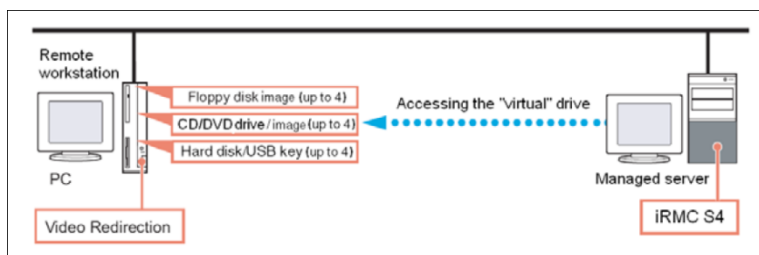
As a useful tool for remote troubleshooting Video Capturing creates a video recording of the events that are displayed on the monitor at the managed server.



Virtual Media supports the following device types to provide a "virtual drive" on the remote workstation:

- CD ROM
- DVD ROM
- Memory stick
- CD ISO image
- DVD ISO image
- Physical Hard disk Drive
- HDD ISO image

The *Remote Image Mount* functionality provides ISO images centrally on a network share in the form of a "virtual drive".



To activate the iRMC S5 Advanced Pack a release key is required. It can be ordered in combination with a new Fujitsu PRIMERGY system (ex-factory activation; S26361-F1790-E243) or subsequently (field activation; S26361-F1790-L244). In case of Fujitsu PRIMERGY server blades the release key is included in the basic configuration.

Extended functions of the iRMC S5

ServerView embedded Lifecycle Management (eLCM)

Simplified Management



ServerView embedded Lifecycle Management (eLCM) for Fujitsu PRIMERGY servers greatly support routine management tasks. System administrators benefit from simplified, highly integrated and automated server management processes.

- eLCM consolidates and enhances ServerView functions directly available (embedded) within the server – without the need of external media like USB / CD / DVD.
- Users have instant access to embedded ServerView functions and can thus conveniently start the required management tasks. eLCM and its highly integrated processes ensure a safe and reliable execution.
- eLCM increases the overall operational effectiveness and reliability of IT infrastructures by enhancing the management capabilities of each individual PRIMERGY system with a highly integrated server management concept for a continuous 24x7 server operation.

Enhance security, stability and overall performance

The iRMC S5 handles all eLCM-related network traffic exclusively via its dedicated management LAN port. None of the system LAN ports used by the server operating system is concerned. Limiting any management related traffic to the management LAN relieves the productive LAN and beyond that helps to avoid security threats.

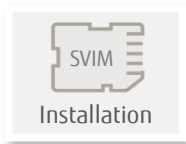
eLCM bypasses the traditional server management which requires agents and management software running on the server operating system. Shifting the management software to the iRMC S5 improves the performance of the managed server.

The only software that eLCM in some cases needs to be run on the server operating system is the ServerView Agentless Service component of the FUJITSU ServerView Suite. Exclusively communicating with the iRMC S5 over HTI (High Speed Transfer Interface), the Agentless Service has only a very small footprint on the server operating system, with negligible impact on the system's overall performance.

eLCM Functions in Version 1.2

Server OS Installation

Reproducible and totally unattended installation of major Operating Systems



Embedded Installation Management (eIM) is the eLCM equivalent to the well-proven ServerView Installation Manager. Stored on the iRMC S5 SD card for immediate use, no external ServerView media needed to set up and install Fujitsu PRIMERGY systems.

eIM provides a fast and secure server configuration and installation. The server is deployed either unattended or menu-driven, locally or remotely. In preparation for the required operating system all configurable system components are identified and the necessary drivers are provided automatically.

Server Online Diagnostics

Preventive server component stress tests



Embedded Diagnostics Management (eDM) is the eLCM edition of the familiar ServerView Online Diagnostics module. eDM allows to carry out performance tests on a variety of Fujitsu PRIMERGY hardware components: Memory, CPU, hard disk, optical drive test.

Administrators can either make use of preconfigured test scenarios or adjust the test parameters to match the particular needs of their Fujitsu PRIMERGY server. Together with all other eLCM software components eDM is also stored on the iRMC S5 SD card.

Server RAID Configuration

Uniform administration and monitoring of host-based hardware and software RAID solutions



Embedded RAID Management (eRM) serves as the eLCM equivalent to the well-known ServerView RAID Manager and supplements the embedded Installation Management (eIM) with respect to RAID management.

Stored on the iRMC S5 SD card for immediate use, eRM enables the utilization of latest cost/performance optimized RAID hardware in Fujitsu PRIMERGY servers without confronting users with various configuration methods and administration software. Users benefit from a stable and efficient interface hiding complexity and reducing administration efforts to a minimum.

Custom Images

Download bootable ISO images onto the iRMC S5 SD card



- Downloading and/or booting of ISO images can be started from the iRMC S5 web interface manually or scheduled by a timer. Boot image selection is also possible in POST phase with F5-key. The UEFI setup of some PRIMERGY servers allows to directly boot the server from an image located on the iRMC S5 SD card.

eLCM image management can handle eLCM images as well as images provided by the customer (custom images). eLCM images are special images each providing one or more eLCM functions (e.g. offline update) and are made available and advertised by Fujitsu Technology Solutions via their own repository server.

Extended functions of the iRMC S5 ServerView embedded Lifecycle Management (eLCM)

Server Update Management

Comprehensive and largely automated update management



BIOS, firmware and drivers installed on a server make it difficult to keep the system up-to-date. eLCM meets this challenge in various respects. With only a few mouse clicks from the iRMC S5 web interface, you configure and initiate the following actions:

- Get displayed the available updates
- Start and monitor the update process

These actions, which can be executed separately or combined, may be started either manually or scheduled by a timer. Beyond that, eLCM update management provides largely automated workflows for performing various kinds of updates (BIOS, firmware, drivers).

Scripting

Hardware configuration via scripts and server profiles



Scripts and server profiles – that is a set of configuration parameters that determine how a PRIMERGY server behaves in action – allow configuring a bunch of servers in one single sweep, thus greatly reducing deployment time and efforts as well as maintenance costs.

The iRMC S5 supports three types of APIs:

- RESTful (Representational State Transfer) incl. profile management ,SCCI (ServerView Common Command Interface; based on IPMI).
- Redfish API by DMTF

ServerView embedded Lifecycle Management (eLCM) is offered as an option for Fujitsu PRIMERGY servers based on iRMC S5 incl. SD card socket and requires a license key that can be ordered either together with a new Fujitsu PRIMERGY system (ex-factory activation; S26361-F1790-E311) or subsequently (field activation; BDL:ELCM-PACK).

PrimeCollect and AIS Connect

Extensive and largely automated health management



eLCM PrimeCollect collects and stores detailed information about the hardware and software of Fujitsu PRIMERGY servers including error information in case of server malfunction. The collected information is stored in a ZIP file on the iRMC S5 SD card.

Within the concept of eLCM the well-known PrimeCollect functionality and usability is enhanced and extended as follows:

- Create PrimeCollect archives automatically and scheduled
- Maintain a history of PrimeCollect archives
- Display PrimeCollect archives in the iRMC S5 web interface
- Transfer PrimeCollect archives to another computer via management LAN or **AIS Connect** (AutoImmuneSystems©)



More information

Fujitsu OPTIMIZATION Services

In addition to FUJITSU Software ServerView® Suite, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio

Built on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

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Software

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www.fujitsu.com/fts/serverview

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