K073418

FEB 2 9 2008

510(k) Summary

This summary of 510(k) safety and effectiveness information is being submitted in accordance with the requirements of SMDA 1990 and 21 CFR §807.92.

I. General Information

Establishment:

- Address: Siemens AG, Medical Solutions
  Henkestrasse 127
  D-91052 Erlangen
  Germany
- Registration Number: 3002808157
- Contact Person: Sabine Schroedel
  Regulatory Affairs Manager
  Telephone: +49 (9131) 84-8285
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Device Name and Classification:

- Trade Name: *syngo*® Imaging
  CCF_VA10A
- Classification Name: Picture Archiving and Communications System
- Classification Panel: Radiology
- CFR Section: 21 CFR §892.2050
- Device Class: Class II
- Product Code: LLZ

II. Safety and Effectiveness Information Supporting the Substantial Equivalence Determination

- **Device Description and Intended Use:**

This premarket notification addresses the Siemens *syngo*-based Picture Archiving and Communication System *syngo*® Imaging CCF_VA10A.

syngo Imaging CCF is a Picture Archiving and Communication System intended for enterprise wide storage, archiving and distribution of digital radiology images and reports to clinical personnel for viewing of current and prior studies. It is not intended for primary diagnosis.

It offers the possibility to store the images in uncompressed/lossless compressed and lossy compressed format depending on modality specific configuration to optimize usage of storage space.

All lossy compressed images are displayed with warning triangles to indicate that the images are not suitable for diagnosis. In DICOM transfers, the respective compression related DICOM attributes are filled.

In a comprehensive imaging suite, *syngo* Imaging integrates hospital information systems (HIS) to enable customer specific workflows.

The system is a "hardware independent" solution to be distributed combined with common IT hardware which must comply to predefined minimum hardware requirements.

syngo® Imaging CCF_VA10A supports the following additional features:

- NAS based central enterprise storage of 10x compression
- Data replication between sites in a multisite environment
- Automatic data reconciliation (in synch with information systems)
- Client redirectin – for high availability and to enable cross reading
- Enterprise patient context (multi MRN support)
- Comprehensive server performance monitoring

Basically these functionalities do not alter the fundamental scientific technology of *syngo*® Imaging CCF_VA10A.

syngo® Imaging Data Management

... ensures all authorized personnel fast and continuous access to radiological data. It's main functionality ranges from availability of images having regard to data security, open interfaces, storage media, central system administration, back-up, software distribution to providing a flexible storage hierarchy.

The main purpose is storing and archiving of radiological softcopy images and structured (DICOM) reports.
For PACS server the *syngo*® Imaging CCF_VA10A Data Management can be used as a DICOM-Archive (LTS Long-term Storage) in accordance with the DICOM Conformance Statement.

Integration:

The Workflow Management enables by integration of any HL7- / DICOM-compatible RIS (IHE Year 5) to the *syngo*® Imaging CCF_VA10A PACS a consistent workflow – from patient registration to requirement scheduling to a personal work list and supports therefore reporting, documentation or administrative tasks.

- **Technological Characteristics:**

syngo® Imaging (CCF_VA10A) is a "software plus hardware"-system, which will be delivered on CD-ROM / DVD or as a complete radiology solution consisting of common IT hardware and preinstalled software. *syngo*® Imaging CCF_VA10A will be installed by Siemens service engineers.

Defined Hardware requirements are to be met.

The backend communication and storage solution (DM) is based on LINUX and Windows 2003 operating system. The workplaces are based on Windows XP. Any hardware platform, which is Windows / Windows XP certified, will be supported.

The herewith described *syngo*® Imaging (CCF_VA10A) supports DICOM formatted images and objects.

- **General Safety and Effectiveness Concerns:**

The device labelling contains instructions for use and any necessary cautions and warning, to provide for safe and effective use of the device.

Risk management is ensured via a risk analysis, which is used to identify potential hazards. These potential hazards are controlled via software development, verification and validation testing. To minimize electrical, mechanical, and radiation hazards, Siemens adheres to recognized and established industry practice and standards.

- **Substantial Equivalence:**

The *syngo*® Imaging CCF_VA10A, addressed in this premarket notification, is substantially equivalent to the following commercially available devices:

Siemens	*syngo* Imaging	K071114
Siemens	SIENET MagicWeb (Web Server), MagicLink I	K973131

The *syngo*® Imaging CCF_VA10A described in this 510(k) has the same intended use and similar technical characteristics as the devices listed above in regard to the specific functionalities.

In summary, Siemens is of the opinion that *syngo*® Imaging CCF_VA10A does not introduce any new
potential safety risks and is substantially equivalent to and performs as well as the predicate devices.

DEPARTMENT OF HEALTH & HUMAN SERVICES

Food and Drug Administration
9200 Corporate Blvd.
Rockville MD 20850

FEB 2 9 2008

Siemens AG, Medical Solutions
% Mr. Stefan Preiss
TUV SUD America, Inc.
1775 Old Highway 8 NW
NEW BRIGHTON MN 55112-1891

Re: K073418
Trade/Device Name: syngo® Imaging CCF VA10A
Regulation Number: 21 CFR 892.2050
Regulation Name: Picture archiving and communications system
Regulatory Class: II
Product Code: LLZ
Dated: February 11, 2008
Received: February 14, 2008

Dear Mr. Preiss:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Center for Devices and Radiological Health's (CDRH's) Office of Compliance at one of the following numbers, based on the regulation number at the top of this letter.

21 CFR 876.xxxx	(Gastroenterology/Renal/Urology)	240-276-0115
21 CFR 884.xxxx	(Obstetrics/Gynecology)	240-276-0115
21 CFR 892.xxxx	(Radiology)	240-276-0120
Other		240-276-0100

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding postmarket surveillance, please contact CDRH's Office of Surveillance and Biometric's (OSB's) Division of Postmarket Surveillance at 240-276-3474. For questions regarding the reporting of device adverse events (Medical Device Reporting (MDR)), please contact the Division of Surveillance Systems at 240-276-3464. You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Nancy C Brogdon

Nancy C. Brogdon
Director, Division of Reproductive,
Abdominal, and Radiological Devices
Office of Device Evaluation
Center for Devices and Radiological Health

Enclosure

INDICATIONS FOR USE

510(k) Number (if known): K073418
Device Name: *syngo*® Imaging CCF_VA10A

Indications For Use:

syngo Imaging CCF is a Picture Archiving and Communication System intended for enterprise wide storage, archiving and distribution of digital radiology images and reports to clinical personnel for viewing of current and prior studies. It is not intended for primary diagnosis.

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In a comprehensive imaging suite, *syngo* Imaging integrates hospital information systems (HIS) to enable customer specific workflows.

Prescription Use X AND / OR Over-The-Counter Use_____
(Part 21 CFR 801 Subpart D) (Part 21 CFR 801 Subpart C)

(Please do not write below this line - continue on another page if needed)

Concurrence of the CDRH, Office of Device Evaluation (ODE)

(Division Sign-Off)
Division of Reproductive, Abdominal, and Radiological Devices
510(k) Number K073418