

Food and Drug Administration 10903 New Hampshire Avenue Document Control Center – WO66-G609 Silver Spring, MD 20993-0002

October 18, 2016

PHILIPS MEDICAL SYSTEMS NEDERLANDS B.V. C/O MARK JOB
RESPONSIBLE THIRD PARTY OFFICIAL
1394 25TH STREET, NW
BUFFALO MN 55313

Re: K162025

Trade/Device Name: IntelliSpace Portal Platform

Regulation Number: 21 CFR 892.2050

Regulation Name: Picture archiving and communications system

Regulatory Class: II Product Code: LLZ Dated: October 7, 2016 Received: October 11, 2016

Dear Mr. Job:

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. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to 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); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); 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.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Industry and Consumer Education at its toll-free number (800) 638 2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

<u>http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm</u> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Robert Ochs, Ph.D.

Director

Division of Radiological Health

Office of In Vitro Diagnostics and Radiological Health

Center for Devices and Radiological Health

For

Enclosure

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Indications for Use

510(k) Number (if known)

Form Approved: OMB No. 0910-0120 Expiration Date: January 31, 2017 See PRA Statement below.

K162025
Device Name IntelliSpace Portal Platform
Indications for Use (Describe) Philips IntelliSpace Portal Platform is a software medical device that allows multiple users to remotely access clinical applications from compatible computers on a network. The system allows networking, selection, processing and filming of multimodality DICOM images. This software is for use with off-the-shelf PC computer technology that meets defined minimum specifications. Philips IntelliSpace Portal Platform is intended to be used by trained professionals, including but not limited to physician and medical technicians. This medical device is not to be used for mammography. The device is not intended for diagnosis of lossy compressed images.
Type of Use (Select one or both, as applicable)
Prescription Use (Part 21 CFR 801 Subpart D) Over-The-Counter Use (21 CFR 801 Subpart C)

CONTINUE ON A SEPARATE PAGE IF NEEDED.

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510(k) Summary

IntelliSpace Portal Platform

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

Date prepared: September 18, 2016

I. Submitter's name and address

Establishment name: Philips Medical Systems Nederland B.V.

Establishment address: Veenpluis 4-6

5684 PC Best The Netherlands

Establishment 3003768277

registration:

Contact person: Ilana Ben Moshe

Regulatory Affairs Expert Phone: +972 525233496

Email: Ilana.Ben-Moshe@philips.com

II. Device information

Trade name: IntelliSpace Portal Platform

Common name: Image and Information Management Platform

Classification name: Picture Archiving and Communications System (21 CFR 892.2050,

Product Code LLZ)

Device classification: Class II

III. Predicate device information

Trade name: AW Server

Common name: Picture Archiving and Communication System

Manufacturer: GE Medical System, LLC

Classification name: Picture Archiving and Communications System

Device classification: Class II 510(k) clearance number: K081985

Philips Medical Systems Nederland B.V.



Reference device no 1

Trade name: Extended Brilliance Workplace a component of Brilliance iCT

(Brilliance Volume)

Common name: Workstation

Manufacturer: Philips Medical Systems (Cleveland), Inc.

Classification name: System, X-Ray, Tomography, Computed (21 CFR 992.1750, Product

Code JAK)

Device classification: Class II 510(k) clearance number: K060937

Reference device no 2

Trade name: MR Permeability Application

Common name: Picture Archiving and Communication System

Manufacturer: Philips Medical Systems Nederland B.V.

Classification name: Picture Archiving and Communication System (21 CFR 892.2050,

Product Code LLZ)

Device classification: Class II 510(k) clearance number: K130278

Reference device no 3

Trade name: ViewForum 2003

Common name: Picture Archiving and Communication System

Manufacturer: Philips Medical Systems Nederland B.V.

Classification name: Picture Archiving and Communication System (21 CFR 892.2050,

Product Code LLZ)

Device classification: Class II 510(k) clearance number: K032096

Reference device no 4

Trade name: IntelliSpace PACS 4.x

Common name: Picture Archiving and Communication System

Manufacturer: Philips Healthcare Informatics, Inc.

Classification name: Picture Archiving and Communication System (21 CFR 892.2050,

Product Code LLZ)

Device Classification Class II
Clearance Number K111804



Reference device no 5

Trade name: EBW NM 2.0

Common name: Picture Archiving and Communication System

Manufacturer: Philips Medical Systems (Cleveland), Inc.

Classification name: Picture Archiving and Communication System (21 CFR 892.2050,

Product Code LLZ)

Device classification: Class II 510(k) clearance number: K111336

IV. Device description

Philips IntelliSpace Portal Platform is a software medical device that allows multiple users to remotely access clinical applications from compatible computers on a network. The system allows networking, selection, processing and filming of multimodality DICOM images. This software is for use with off-the-shelf PC computer technology that meets defined minimum specifications.

The IntelliSpace Portal Platform communicates with imaging systems of different modalities using the DICOM-3 standard.

V. Intended use

Philips IntelliSpace Portal Platform is a software medical device that allows multiple users to remotely access clinical applications from compatible computers on a network. The system allows networking, selection, processing and filming of multimodality DICOM images. This software is for use with off-the-shelf PC computer technology that meets defined minimum specifications.

IntelliSpace Portal Platform is intended to be used by trained professionals, including but not limited to physicians and medical technicians.

This medical device is not to be used for mammography.

The device is not intended for diagnosis of lossy compressed images.

VI. Technological characteristics

Philips believes that IntelliSpace Portal Platform product is substantially equivalent to the predicate GE AW Server legally marketed product with additional/enhanced functionality deriving from the reference devices:

- (K032096) ViewForum2003
- (K060937) Brilliance iCT (Brilliance Volume) EBW Workstation component
- (K130278) MR Permeability including details on IntelliSpace Portal component the next generation of the EBW product,
- (K111804) IntelliSpace PACS 4.4
- (K111336) EBW NM 2.0

Below is the comparison table to summarize the similarities and differences of the subject, predicate, and reference devices.

See Conclusion statement at the end of this section for substantial equivalency assessment of the differences indicated in the table.



#	Feature/ Capability	IntelliSpace Portal Platform Subject Device	AW Server Predicate Device (K081985)	Various (see details below) Reference Devices				
Syste	System Configuration							
1	Standard off the Shelf Hardware and Operating System (OS) requirements	Yes	Yes	Not supported				
2	VMware Support	Yes	Yes	Not supported				
3	Thin client- server technology	Yes	Yes	Yes (K032096) ViewForum				
4	Dual monitor support	1024x768 and up to 3MP	1024x768 and up to 3MP	Not supported				
5	Client multi- resolution display support	1024x768 and up to 3MP	1024x768 and up to 3MP	Not supported				
		ons and Functionality						
6	Multiple concurrent user support	Yes	Yes	Yes (K032096) ViewForum				
7	Patient directory / Report/ Film / Worklist application	Yes	Not supported	Yes (K032096) ViewForum				
8	Presentation State Support	Yes	Yes	Yes (K032096) ViewForum				
9	Pre-processing and background processing	Yes	Yes	Yes (K032096) ViewForum				
10	CD/DVD burning	Yes	Yes	Yes (K032096) ViewForum				
11	USB device support	Yes	Not supported	Yes (K111804) IntelliSpace PACS 4.4				



#	Feature/ Capability	IntelliSpace Portal Platform Subject Device	AW Server Predicate Device	Various (see details below) Reference Devices
12	Speech Recognition software (PowerScribe) for reporting	Yes	(K081985) Unknown	Yes (K032096) ViewForum
13	Bookmarks: creating, saving, and loading	Yes	Yes	Not supported
14	Support of Lossy Compression for improved performance	Yes	Yes	Yes (K032096) ViewForum
15	Licensing	Yes	Unknown	Yes (K130278) MR Permeability including IntelliSpace Portal
16	Support of Data Pre- Fetch from remote devices	Yes	Yes	Yes (K032096) ViewForum
17	Management tool	Yes	Yes	Yes (K032096) ViewForum
Revie	w Modes and Image Man	ipulation		
18	Support multi- modality data	Yes	Yes	Yes (K032096) ViewForum
19	2D slice view, Thin slab/ MPR view, 3D Volume Rendering/ MIP view /MiniP	Yes	Unknown	Yes (K032096) ViewForum
20	Fusion viewing	Yes	Unknown	Yes (K032096) ViewForum (K111336) EBW NM 2.0
21	MR Segmentation	Yes	Unknown	Yes (K032096) ViewForum
22	Cine viewing	Yes	Yes	Yes (K032096) ViewForum
23	Image Manipulation: scroll/pan/ zoom/rotate/ comparison/ merge	Yes	Yes	Yes (K032096) ViewForum



#	Feature/ Capability	IntelliSpace Portal Platform Subject Device	AW Server Predicate Device (K081985)	Various (see details below) Reference Devices				
24	Send images and views to film application	Yes	Yes	Yes (K032096) ViewForum				
25	Send images and views to a reporting application	Yes	Yes	Yes (K032096) ViewForum				
26	Create image annotations	Yes	Yes	Yes (K032096) ViewForum				
27	Measurement and graphics: ROI, angle, text	Yes	Yes	Yes (K032096) ViewForum				
Comr	Communication and Interoperability							
28	Integration with institution's HIS, RIS, EMR	Yes	Yes	Yes (K032096) ViewForum				
29	PACS integration	Yes	Yes	Not supported				
30	Data Streaming tool integration	Yes	Unknown	Not supported				
31	Multi-vendor Application plug-in	Yes	Yes	Not supported				
32	Enterprise deployment (scalability feature)	Yes	Yes	Not supported				
33	Multimodality Web Viewer (with any computer)	Yes	Not supported	Not supported				
34	Multimodality Web Viewer - Mobile non- diagnostic viewing (Collaboration Viewer)	Yes	Not supported	Not supported				

Listed above technological differences are considered low risk, providing further support to clinicians in visualization or administrative functions. The majority of these functionalities are derived from reference devices and were verified and validated, and do not raise new questions on safety and/or effectiveness.

These features have not changed the intended use and operational principles of the device.

Philips Medical Systems Nederland B.V.



Therefore, the IntelliSpace Portal Platform is substantially equivalent to the currently marketed predicate device GE AW Server (K081985) in terms of technological characteristics.

Conclusion:

The IntelliSpace Portal Platform is substantially equivalent to the currently marketed predicate device, AW Server (K081985) in terms of indication for use, design features, fundamental scientific technology, and safety and/or effectiveness.

VII. Brief discussion of the nonclinical tests submitted, referenced or relied on

No performance standards for PACS systems or components have been issued under the authority of Section 514. Non-clinical performance testing has been performed on ISPP and demonstrates compliance with the following International and FDA-recognized consensus standards and FDA guidance document:

- ISO 14971 Medical devices Application of risk management to medical devices
- IEC 62304 Medical device software Software life cycle processes
- NEMA-PS 3.1- PS 3.20 Digital Imaging and Communications in Medicine (DICOM)
- Guidance for Industry and FDA Staff Guidance for the Content of Premarket Submissions for Software Contained in Medical Devices

The ISPP system was tested in accordance with Philips verification and validation processes. Verification and Validation tests have been performed to address intended use, the technological characteristics claims, requirement specifications and the risk management results.

The test results in this 510(k) premarket notification demonstrate that ISPP:

- complies with the aforementioned international and FDA-recognized consensus standards and FDA guidance document, and
- Meets the acceptance criteria and is adequate for its intended use.

Therefore, ISPP is substantially equivalent to the currently marketed predicate device GE AW Server (K081985) in terms of safety and effectiveness.

VIII. Brief discussion of clinical tests submitted, referenced or relied on

The subject of this premarket submission, ISPP does not require clinical studies to support equivalence.

IX. The conclusions drawn from the nonclinical and clinical tests

Verification and Validation activities required to establish performance and functionality of IntelliSpace Portal Platform were performed. Testing involved system level tests, performance tests, and safety testing from Risk Analysis. Testing performed demonstrated the IntelliSpace Portal Platform meets all defined functionality requirements and performance claims.



X. Overall conclusion:

The IntelliSpace Portal Platform is substantially equivalent to the predicate device AW Server (K081985) in terms of design features, fundamental scientific technology, indications for use, and safety and effectiveness.

Additionally, substantial equivalence was demonstrated with non-clinical performance testing, which complied with the requirements specified in the international and FDA-recognized consensus standards. The non-clinical performance tests provided in this 510(k) premarket notification demonstrate that the subject IntelliSpace Portal Platform is as safe and effective as its predicate device without raising any new safety and/or effectiveness concerns.