



A leader in medical image distribution and Radiation dose monitoring  
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## FOR IMMEDIATE RELEASE

### **SST GROUP INC. and development partner MPTronic, sign partnership with Virtual Phantoms to add a new module: Calculation of the Organ Dose to RDM™ (Radiation Dose Monitor).**

**Santa Clara, CA, March 27, 2017** – SST Group, Inc., is proud to announce the integration of the organ dose module 'VirtualDose™CT' into its Radiation Dose Monitor (RDM) solution. Developed in partnership with **Virtual Phantoms, Inc.**, this new module will be added to RDM's existing features.

The features of the organ dose module include:

- Monte Carlo algorithm calculation of mean doses delivered to organs by type of activity using existing dose data (DLP, CTDI, etc.)
- Estimation of the dose received by the fetus from the different stages of gestation of the pregnant woman
- Several parameters are considered: weight, height, age, pregnancy stages of the pregnant woman, etc.
- Calculation in accordance with ICRP- 60 and ICRP-103 recommendations

“Peter Caracappa, CTO of Virtual Phantoms, Inc., approached SST Group with his virtual phantom modeling platform. I saw an immediate match to further explore the patient radiation dose and continue the expansion of the data collected by RDM. This would allow for a more accurate dosage profile for any patient and also for further reduction and optimization of the dosage delivered to patients during ionizing exams,” said Richard Murphy, President, SST Group, Inc.

### **Additional features added to RDM to meet Euratom/2013/59 Directive**

“Leveraging MPTronic’s and MedSquare’s experience in Europe allows SST Group to be at the forefront of dose management in the US and to provide our customers with a state-of-the art product that goes beyond the requirements,” concludes Mike Sutherland, Sales Director, SST Group, Inc.

With increasing regulations in the EU, dose monitoring has become an important issue. The release of the Euratom/2013/59 Directive mandates member states to have national legislation on safety standards in place by February 2018. RDM is ahead of the requirements.

### **Peak Skin Dose Module**

Accurate knowledge of the patient’s peak skin dose will make it possible to set up dermatological follow-up based on the skin dose, especially when a deterministic effect to the skin is expected based on that value.

### **Pivot tables**

Creation of dynamic pivot tables, based on the different categories of the RDM solution – age, procedures, acquisition protocols, acquisition types, etc. These can be created in a few clicks.

### **New advanced statistics module**

Allows for cross-dose data comparison

### **Powerful rules alerts**

Implementation of specific alerts regarding a patient and/or his or her studies

### **Alerts distribution**

Allows distribution of alerts over every day of the week

**RDM™ (Radiation Dosage Monitor)** is designed to collect, control, analyze and optimize radiation doses delivered to patients during medical imaging and interventional examinations. It utilizes a Dose Archive and Communication System (DACS) to store and manage radiation dose data for patient current and historical procedures and includes all captured diagnostic, interventional and image-guided surgical ionizing events. The RDM is truly unique compared to other DOSE Monitoring products, because it acquires, stores and analyzes data directly from the modality to present a more accurate dose estimate. Its intuitive browser-based user interface allows medical professionals gain complete control of the dose with instant access to a patient's dose history and real-time monitoring and alerts.

“Our development partner MPTronic, and its EU partner [Medsquare](#), have quickly become the leading provider of Dose Management Systems (RDM) in Central Europe. SST Group believes that Patient Dosage monitoring should go beyond the requirements and provide a complete history of an institution's population for all diagnostic, interventional and image-guided surgical ionizing events to be captured. This additional information allows a facility to truly see the entire picture on a patient's dosage history based on anatomical region, not just what is sent to PACS. Our partnership with MPTronic allows SST Group to be at the forefront of this market as it matures.” explained Richard Murphy, President, SST Group, Inc.

### **About SST Group**



Based in the heart of Silicon Valley, SST Group has been an innovative leader in DICOM image delivery and management since 2004. Products range from simple data storage to specialized DICOM medical solutions and include image delivery systems, DICOM utilities and software designed to store, organize and share medical images within PACS systems. As a key partner to leading medical equipment manufacturers, SST solutions are bundled with PACS solutions and DICOM modalities such as CT, MR, XA, and are used in over 2500 hospitals and private clinics worldwide. For more information about SST Group visit [www.sstgroup-inc.com](http://www.sstgroup-inc.com). Follow SST Group via Facebook, LinkedIn and Google+ and subscribe to product update emails and newsletters through the link on the homepage.

### **About Virtual Phantoms**



Virtual Phantoms, Inc. was founded in 2009 by faculty members from Rensselaer Polytechnic Institute, in collaboration with the University of Florida, with an exclusive license of the “Virtual Patient” technologies developed from nearly 20 years of research at RPI and UF in the field of nuclear and radiological engineering.

Combining a large collection of anatomically accurate models of patients of various ages and sizes and sophisticated “Monte Carlo” simulation methods originally developed for nuclear weapons research at Los Alamos in the 1940s, VPI is recognized as a world leader in the modeling of ionizing radiation, radiation safety,

and medical/occupational radiation dosimetry.

For more information about Virtual Phantoms or VirtualDose™CT: Website: [www.virtualphantoms.com](http://www.virtualphantoms.com)  
Contact: Peter Caracappa, VPI Chief Technology Officer; +1 518-421 6931, [peter.caracappa@virtualphantoms.com](mailto:peter.caracappa@virtualphantoms.com).

#### **About MedSquare**



Medsquare provides innovative solutions for the medical imaging environment. Our solutions (burning, printing, archiving, secured web image distribution through the internet, etc.) are currently being used in more than 450 university hospitals and private clinics in France and more than 2000 around the world.

Founded in 2006 as a French company based in Paris, Medsquare is a key partner of the world's leading radiology equipment manufacturers, who offer our peripheral devices and software to their customers bundled with the sale of their DICOM modalities (CT, MR, XA, etc.).

Medsquare is also a leading player in the DACS (Dose Archiving and Communication System) market. Our patient dose management system – Radiation Dose Monitor (RDM) – enables healthcare institutions to collect, control and analyze radiation doses delivered to patients during medical imaging exams. RDM helps improve clinical practices and optimize doses.

#### **About MPTronic**



MPTronic, located in Paris, France since 1990 and is a leading developer of DICOM-related software for Storage (PACS), Web Distribution, Importation, Printing, Viewing, and Editing and now Patient radiation dose monitoring. For more information about MPTronic visit [www.mptronic.com](http://www.mptronic.com)

RDM is a trademark of MPTronic.

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