



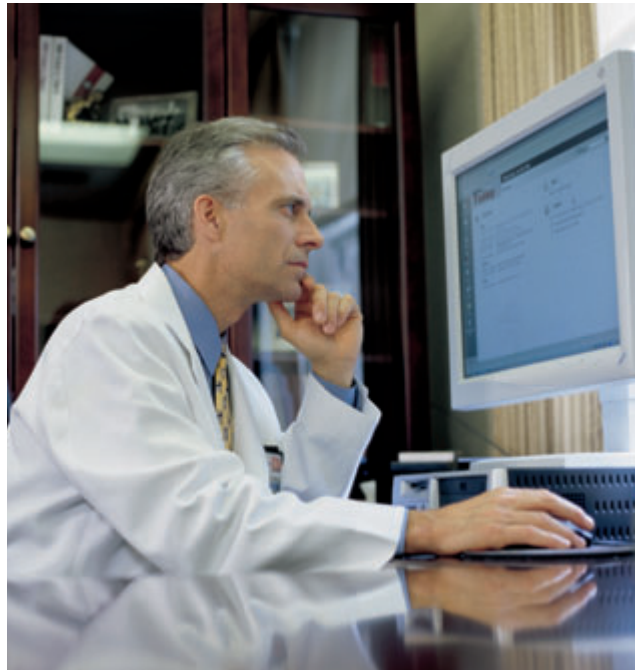
Soarian Integrated Care

For patient-centered cooperation

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Soarian Integrated Care – The Solution for an Efficient Network



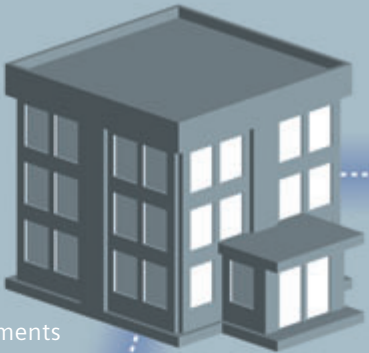
Whether you run, own or operate a hospital, a group practice, a private physician practice, or a rehabilitation clinic, you all pursue a common objective: the most efficient and patient-oriented health care possible. Meeting this objective requires close cooperation among all of the participants.

Soarian® Integrated Care from Siemens is a solution that provides you key support with an optimized flow of information across sectors. Soarian Integrated Care is an application that enables integration of new communication media into your existing treatment workflows and systems.

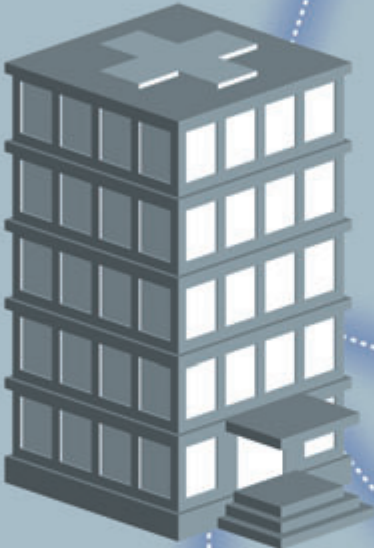
Faster access to important information

In complex treatment processes, patients are often treated by various health care providers, for example, a general practitioner, specialists in private practice, and a hospital. To ensure a smooth treatment process without unnecessarily repeating examinations, patient data has to be exchanged, such as information regarding treatments and therapies, diagnoses, and images. Often, the treating physician wants to obtain the opinion of a colleague or another institute, especially in the case of a difficult diagnosis. With Soarian Integrated Care, all of this occurs easily via a secure common network, enabling all participants to view the relevant information with a click of the mouse. This can help you lower treatment costs and increase treatment quality, particularly when dealing with chronic diseases.


Integration enables smooth information exchange



In the healthcare and specialist center, appointments are coordinated online. Diagnostic reports, images, etc., are available to the institutions involved in the treatment.



The hospital can view the previous diagnoses of the general practitioner and specialist. As a result, the treating physician makes therapy decisions on the basis of a comprehensive disease history.




During the patient's stay in the hospital, the general practitioner can look at diagnostic reports (e.g., the OR report) in the patient file.

Soarian Integrated Care supports communication between various health care facilities. This is enabled through the exchange of diagnostic reports and images between the participants, and through the administration of a common patient file. As a result, the facilities participating in the treatment have easy access to all relevant information entered in the treatment network and provided in the patient file.

Soarian Integrated Care – an open system

All classic hospital information systems (HIS) from Siemens, such as *medico//s*, *Clinicom*, and the innovative workflow management system *Soarian Clinicals*, are compatible with *Soarian Integrated Care*. The HIS systems of other manufacturers as well as physician information systems can be linked to *Soarian Integrated Care* amongst others via HL7. This openness to various IT systems makes *Soarian Integrated Care* a universal telemedicine platform for integrated health care.



The specialist can use the common patient file to obtain a comprehensive view of the patient, resulting in a better case history in a shorter time. With a single click of the mouse you can see the treatments that have been performed, and use this information for subsequent treatment.

Better patient care, higher efficiency

Close cooperation between inpatient and outpatient care is a general requirement in health care, because it results in improved treatment. But it is mandatory to ensure the efficient provision of services in this area. Soarian Integrated Care is an important component for reaching this objective – thanks to significantly improved communication between participating physicians, treatment quality increases while at the same time, administrative expenditures decrease.

Improved workflows through integration

By synchronizing the service providers involved in patient care and the corresponding information, workflows are simplified across all sectors, existing relationships, e.g. between referring physicians and hospitals, are strengthened, and new relationships are established. Soarian Integrated Care provides this integration in a simple, web-based manner.

Flexibility due to modular design

The modular design of Soarian Integrated Care enables optimal adaptation to the individual needs of users. Depending on the application scenario, existing and newly added modules can be utilized and the system design can be adapted to an increasing number of users.

Benefits overview:

- Easy and fast digital exchange of diagnostic reports and images
- Information is obtained once and is then available to all participants
- Improved workflows
- Open for various IT systems
- Modular, scalable design



A specialist receives diagnostic reports quickly and easily to provide a well-founded second opinion.

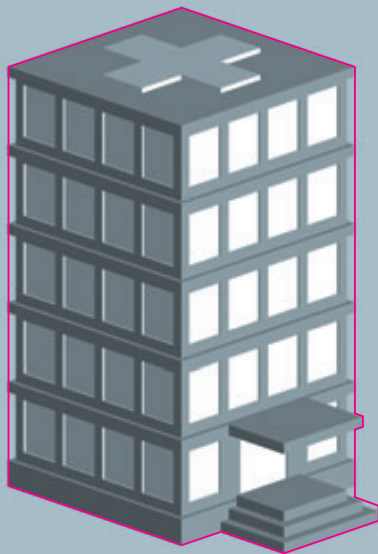
Rehabilitation centers or nursing services receive information on the patient's treatment in a single view. This enables the patient's care to be seamlessly linked to the hospital stay, and the treatment can be continued using the documentation in the patient file.



The situation without Soarian Integrated Care



At the health care and specialist center, appointments are coordinated via telephone. Diagnostic reports, images, etc., have to be sent by mail.



The hospital has difficulty including the general practitioner and the referring specialist in the treatment.

In your medical facilities, such as group practices and hospitals, you are already optimizing patient care. You are using various IT systems, such as physician and hospital information systems. Each of these systems has its own patient files where patient information is stored. If a patient is referred by a general practitioner to a specialist or hospital, none of the participants can look at the examination reports of the other institutions providing treatment. Existing diagnostic reports and images are sent either by mail or with the patient. It can take a while for mail to arrive, and patients can forget the documents. As a result, repeated diagnoses are not uncommon, and the entire workflow is based upon incomplete information and slows down. This negatively impacts both the quality of treatment as well as health care costs.



Without a data network, the general practitioner has to wait a long time for the discharge physician letter on his patient.



The specialist may have to refer the patient to the hospital, but the general practitioner receives no confirmation.

Finding solutions with the right partner

Over the past few years, Siemens has participated in the development and implementation of IT systems in the framework of telemedicine and integrated health care. During this time, we have developed solutions in the area of integration that have been successfully implemented.

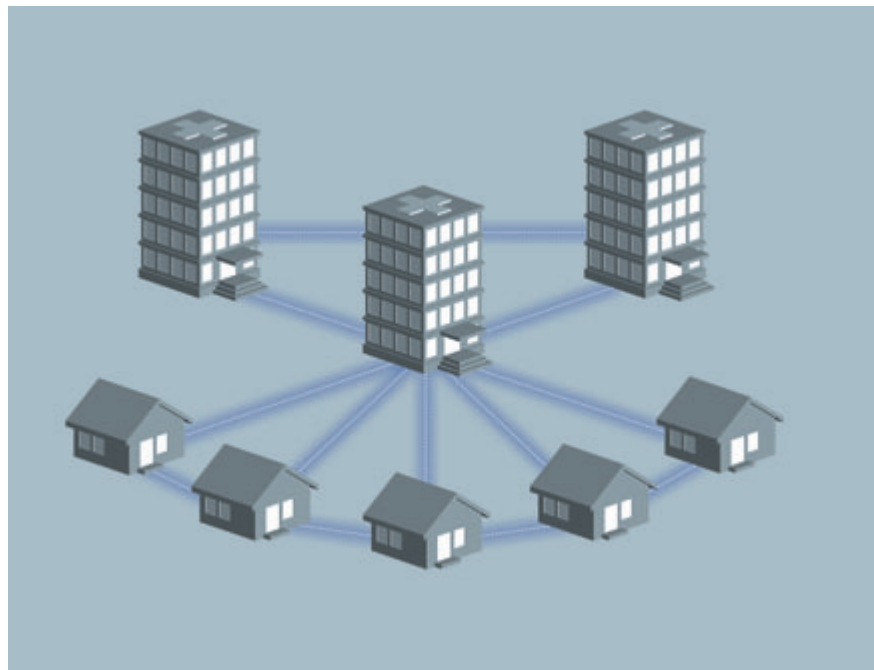
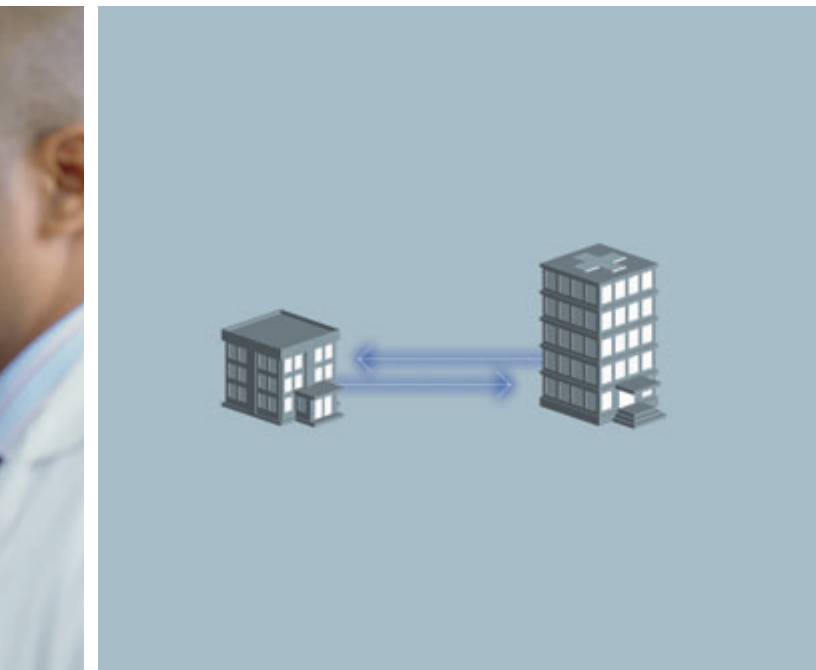
A few examples:

- **T@lkingEyes** – Telemedicine prevention project for early detection of vascular risk factors using the ocular fundus
- **Disease Management** – Telemedical care for patients with heart failure
- **DR Screening** – National infrastructure for the management of 300,000 diabetics in Scotland, with the objective of preventing patient blindness

The experiences we obtained on these and other projects flowed into the product development of Soarian Integrated Care. In addition, we remain in close contact with users of various IT systems, as well as with providers of physicians' office system software and network security experts, to meet your requirements. As a result, the constantly changing requirements from physicians in practice flow into the further development of Soarian Integrated Care.



Easier with Soarian Integrated Care – two practical examples



Teleradiology – for fast decision making

If a patient is admitted to the hospital with acute neurological symptoms, and if intracerebral bleeding is suspected, a decision has to be made quickly as to whether the patient should be moved to the neurosurgery center and immediately undergo surgery. With Soarian Integrated Care, the physician on duty in the hospital reviews the relevant diagnostic reports and relevant CT and MRI series in the patient's record.

The treating physician can establish a teleradiology query with neurosurgery. The neuroradiologist on duty can open the teleradiology query at a suitable workstation, review the critical images and documents, evaluate the case, and immediately document recommendations regarding therapy.

As soon as the therapy recommendation is available from the neurologist, the treating physician is advised and can continue with treatment – without having to move the patient to neurosurgery for a diagnosis.

The network patient file – everyone is informed

The network patient file supports the workflow of networked physicians. For example, if a general practitioner refers a patient with heart problems to a specialist, the appointment for the patient at the cardiologist can be immediately booked using the web-based calendar. At the same time, the general practitioner can send ECGs taken at the office to the cardiologist in question. Should the cardiologist determine a serious heart disease in the patient, the patient is referred to the hospital. In the network file, the cardiologist stores the ECGs from the general practitioner, ultrasound images, the diagnostic report, and the referral for the patient's hospitalization, and releases access for the general practitioner and the hospital. As a result, the general practitioner remains informed on the course of the patient's disease, and the hospital physician has access to the entire history of the patient's disease and diagnostic reports with images. Using these previous diagnostic reports, the hospital physician is informed about the patient's status before the patient reaches the ward.



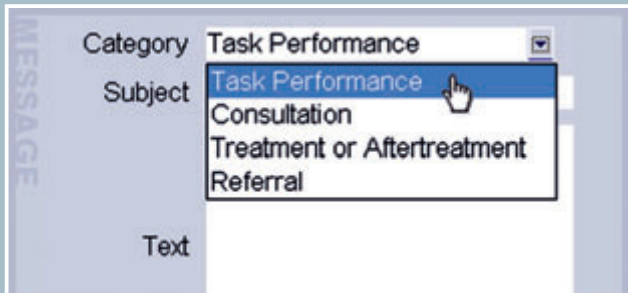
Better care and lower costs

Soarian Integrated Care is a modular communication system that links together various health care sectors. It enables the administration of a network patient file, communication and teleconsultation among participants, online appointment scheduling, consent management, and much more. These tools result in sustainable improvements in patient care. Whether a general practitioner, specialist, hospital, or rehabilitation center – all participants can review the patient's record in accordance with their authorization. Images and other data no longer have to be sent by mail, rather, they are immediately available digitally for all participants. In addition to improved patient care, this also results in cost savings.



The common patient file – the prerequisite for optimum treatment

Thanks to the common patient file, all documents, images, and patient information such as master data and diagnoses, are always available. Since all authorized participants can review the data, high-quality patient care is possible.



Communication and Teleconsultation – easy and effective

Networked partners can communicate with one another via a secure connection and transfer patient-related documents and data, such as physician's letters, diagnostic reports, lab results, or images. In addition, the second opinion of another physician can be obtained quickly and easily.



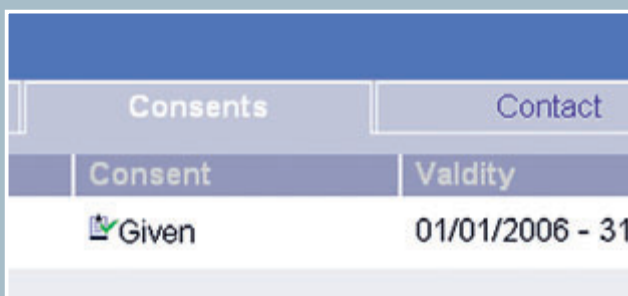
Teleradiology – DICOM communication across the entire network*

Using Soarian Integrated Care, DICOM images from the connected modalities can be received, distributed in the network automatically or manually, and viewed in a web browser at any connected workstation.



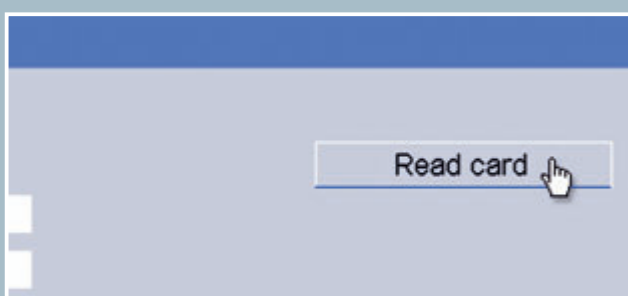
Well coordinated online appointment scheduling

Soarian Integrated Care also supports the coordination and scheduling of a treatment: Appointments may be easily scheduled online by the physician continuing treatment. The patient receives printed appointment confirmation.



Simplified administration of patient consent

The patient's written consent can be managed using Soarian Integrated Care. All authorized physicians have access to the corresponding information.



Smart card support

Today, a new patient file can be created, or an existing patient found in Soarian Integrated Care by reading the health insurance card. In the future, Soarian Integrated Care will support the use of the electronic health care card or any other smart cards used in national health-care infrastructures..

* Not intended to image in vivo distribution of radiopharmaceuticals



Security is critical to us

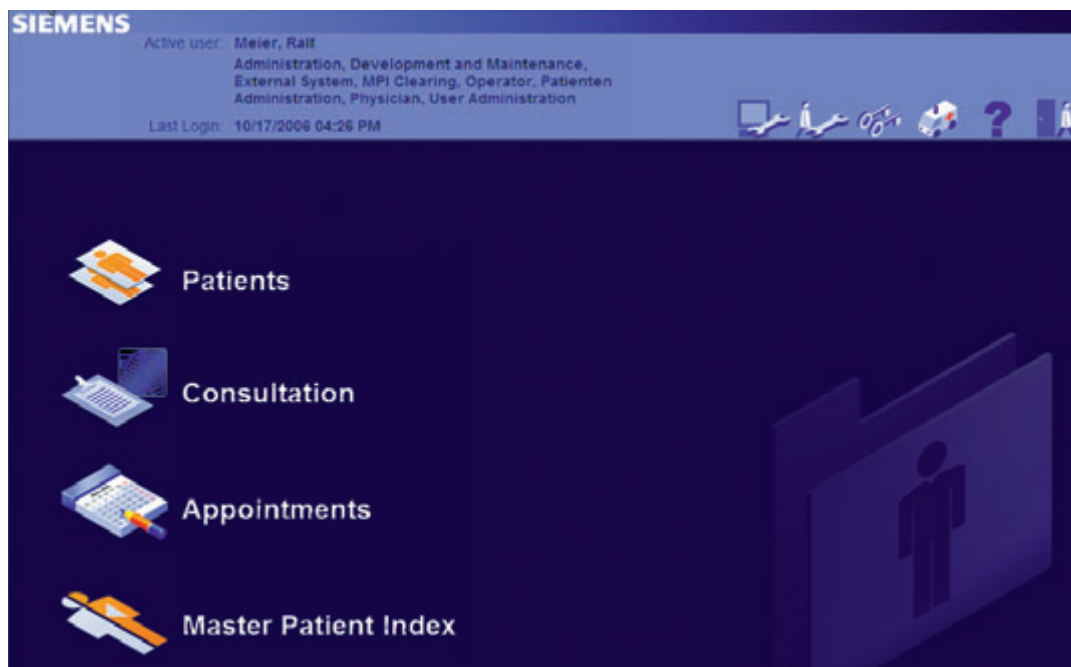
Diagnostic images and physician reports are extremely sensitive documents that have to be protected against unauthorized access. Soarian Integrated Care supports the encrypted transmission of patient data.

Secured access to sensitive data

Not only is secure transmission of data extremely important, but also the decision regarding who receives access. Only those with access authorization can review and send patient data – after having logged on to the system. A configurable access concept ensures that physicians and their team members can only view the information relevant to them.

Flexible because it is user-based

To connect individual participants to Soarian Integrated Care, we have established a pricing model that takes into account the variable needs of users. No longer are the hospitals, group practices, and other connected partners counted. Instead, the model is based on the participating users and the functions they utilize.



System prerequisites

Soarian Integrated Care Server

Soarian Integrated Care uses two server components operated under SUSE Linux:
An applications server (Apache™/Tomcat™) and
An Oracle database server. The database server dimensions are based on the user's data volume.

Soarian Integrated Care Clients

- Microsoft Windows XP SP2 operating system or Windows 2000 SP4
- Screen resolution 1280 x 1024 Pixel with 32 Bit color depth (minimum 1024 x 768 Pixel)
- Fast network connection (e.g., DSL)
- Microsoft Internet Explorer Version 6.0



Soarian Integrated Care overview:

- Electronic common patient file
- Administration
- Defined security and access mechanisms
- Access protocol
- Addressed communication
- Display of multimedia documents

Optional:

- Appointment scheduling
- Consent management
- Interface to external IT systems
- Smart Card support
- Teleradiology

Would you like to learn more about Soarian Integrated Care?

For additional information regarding Soarian Integrated Care, please contact the Sales office responsible for your region.



Proven Outcomes.

This is what Siemens is helping to deliver right now. Outcomes that result from truly efficient workflow. Outcomes that improve your bottom line. Outcomes that lead to a level of care that feels exceptional to the patient and the care provider. Proof positive of the value of integrating medical technology, IT, management consulting, and services. In a way that only Siemens can.

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Order No. A91GS-00008-1C1-7600
Printed in Germany
CC GS 00000-01-06 WS 10062.

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