

CaradigmTM Intelligence Platform

Swiss Hospital Opens Up New Dimensions

All Data Quickly Available via the Caradigm Intelligence Platform
(formerly Amalga)

Highly qualified physicians and modern medical technologies represent the traditional pillars of high-performing hospitals. However, these by themselves are no longer sufficient. To ensure reliable diagnostics and successful treatments, an intelligent information management system is also required.

Handwritten patient reports are slowly becoming a thing of the past. Today radiology images are assessed and reported on a digital workstation and on a computer screen. Medical documentation, patient information, laboratory results or nursing data are recorded and managed electronically by using different IT solutions. All this involves enormous amounts of data. But how can the data recorded in various hospitals in different IT systems be integrated?

This is exactly where the Swiss hospital Solothurner Spitäler (soH) sets a new bar – as the first hospital in the German-speaking countries. With its use of the Caradigm Intelligence platform, SoH has an innovative platform which enables the aggregation of clinical data first and then allows to access the clinical information individually. This comprehensive application meets specific medical requirements for diagnosis and therapy as well as supports statistical analyses in order to operate the clinic economically.

“A global information management system like the Caradigm Intelligence Platform offers major benefits to both patients and physicians as it enables the delivery of optimal care services without delay and at the same time helps to manage the hospital in an economically responsible manner,” explains Alexander Britz, General Manager at Microsoft Health Solutions Group Europe.

Being one of the largest clinics in Switzerland, soH opened up a promising solution to the industry’s current challenges of providing overall integrated data.

Within its IT environment, medical data was locked away in proprietary systems that dictated the usage of data. In addition, soH had the problem of physical distance – as the organisation is spread over the different locations of Olten, Solothurn, Dornach, and Grenchen.

A high degree of transparency and direct access to the data was required not only for the different specialties and disciplines, but also across its four locations. Whilst the physicians were using a clinical portal based on Microsoft SharePoint it was extremely difficult to integrate medical history, radiology results, diagnoses and laboratory results electronically, and allow for statistical analyses and advanced clinical analytics.

CASE STUDY



solothurner spitäler ag

Customer: Solothurner Spitäler AG

No. of beds: 810

No. of employees: 3,446

No. of annual inpatients: 27,204

Discharges (incl. psychiatry, long-term care and rehabilitation)

No. of annual outpatients: 128,197

Country: Switzerland

Website: www.so-h.ch

“Amalga (now Caradigm Intelligence Platform) makes an end to the costly fragmentation of the IT in the health care system. The vision of making the data of a health organisation available in real time across multiple locations and beyond system and format boundaries at last becomes a reality.”

Pascal Walliser, MD

Former CIO, Solothurner Spitäler AG

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soH had to find a solution which could automatically extract data from the isolated databases and connect them in a flexible manner. The idea was to imple-

ment a user-friendly ‘cockpit’, similar to an aircraft, which provided instantaneous access to all relevant clinical data in an electronic format.

Cockpit Design Provides All Data Directly At Your Fingertips

With the close cooperation of the Microsoft partner AFCA-Informatik, the IT manager at soH, Pascal Walliser (MD), and his team turned a vision into reality. They introduced the Medical Cockpit in a phased manner – a system based on Microsoft technologies such as SharePoint and Silverlight as the user interface and with the intelligence platform as the core data platform. The Intelligence Platform aggregates data from a number of different systems – “Nexus Hospis” (hospital information system), “GE Centricity” (radiology information system), “Datamed WinDMLab” (laboratory in-

formation system), and “WiCare|DOC” (electronic patient documentation) – and makes them available to users via the Medical Cockpit.

Thanks to the Caradigm Intelligence Platform, the medical information is immediately aggregated and made available to the hospital users, side-by-side with information from other systems. For example, if a new lab result is added to a patient’s file during a differential diagnosis, it is automatically updated in Amalga updated in the Intelligence Platform and directly

Customer Profile

Solothurner Spitaler AG (soH), situated in the Swiss canton of Solothurn with 260,000 inhabitants – offers complete medical and psychiatric care services across its hospitals in Solothurn, Olten, Dornach and Grenchen. With over 800 beds, soH has a comprehensive performance mandate and is the primary medical responder in the canton.

soH employs about 3,400 people at its various sites and is one of the largest employers in the canton, offering its employees a challenging environment and modern working conditions. With about 350 training positions, the clinic is also the largest clinical training centre.

soH treats approx. 27,000 inpatients and about 128,000 outpatients each year. The average stay of a patient is 6.8 days. soH is a non-profit corporation, with the canton of Solothurn as the sole shareholder.

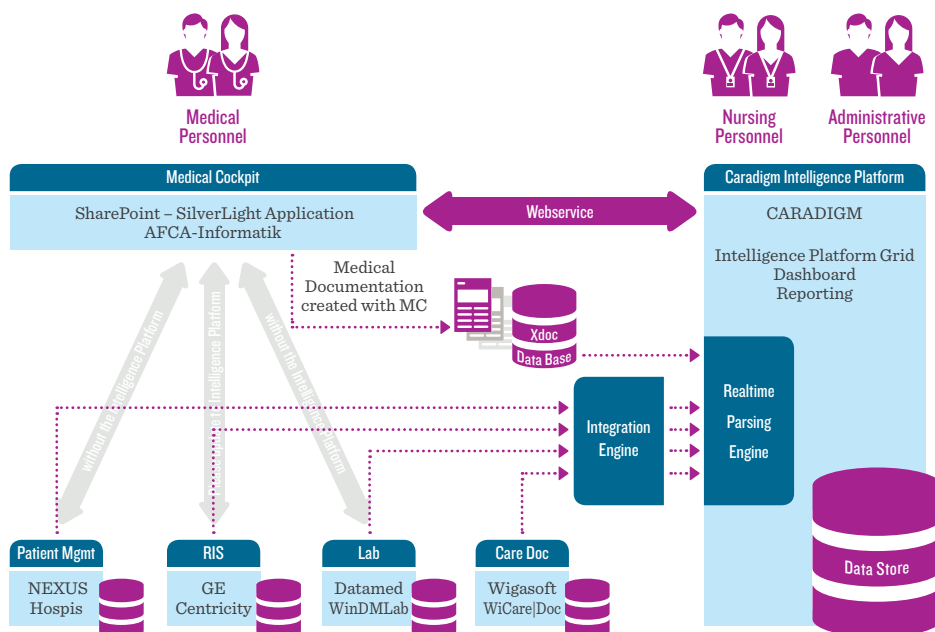


Figure 1 – Graphical view of the data flow

Caradigm™ Intelligence Platform

provided to the physicians and nurses. The end users can easily perform analyses on their own directly within the Medi-

cal Cockpit – without the need to request additional information from other areas.

Less Effort for Data Collection, More Time for Patients

The Caradigm Intelligence Platform and the Medical Cockpit today effectively support the whole medical team at soH. The cockpit solution offers an easy-to-use and central application making all clinical data accessible in a quick and easy way.

By providing timely and complete documentation accessible to the entire clinic group across different locations, soH can offer patients optimised health care services and streamline its processes. By connecting the Medical Cockpit with the

Intelligence Platform, hospitals can save time, relieve employees from routine tasks and reduce potential error sources. The Caradigm Intelligence Platform also enables more efficient workflows and helps improve the quality of treatment and patient care. Medical care providers of soH gain more time for patient care enabling them to concentrate on their core competencies.

For more information visit:
www.caradigm.co.uk



The screenshot displays the 'Medical Cockpit' interface. At the top, there's a navigation bar with 'Startseite', 'Suchen PID FID', and 'TEST NAXOS'. The main area is divided into several panels:

- Left Panel:** Contains 'Meine Patienten' and 'Meine Termine' tabs. Under 'Meine Patienten', there's a list of patients with checkboxes for 'Druckauswahl'. One patient, 'Testpatient Max', is selected, showing details like 'Mann, 01.01.2000, allgemein' and 'Ärzte: 30.08.2011'. Below this is a list of other patients like 'Testpatient Egon' and 'Testpatient Felix'.
- Center Panel:** Titled 'Diagnosen von Testpatient Claudia, Frau, 17.06.1963, allgemein,'. It lists 'Hauptdiagnose 1' (haubt 1), 'Hauptdiagnose 2' (haupt 2), and 'Diagnose 1' (neben 1(3)). Below this is a list of medical events with dates and descriptions, such as 'ANOS_SO, Notfall, 12.11.2012, Ausgetreten'.
- Right Panel:** Contains 'Schnellnavigation' with links like 'Neuer Patient', 'Portal Admin', and 'Quernavigation'. Below this is 'Meine Links' with various links like 'Anästhesie Patientenaufklärung KSO', 'Antibiotika Richtlinien', etc.
- Bottom Panel:** Titled 'Meine Aufgaben', it shows a table with columns 'PID', 'FID', 'Patient', and 'Dokument'. It lists tasks like 'Dokumente zum Visieren' with patient IDs and document types like 'Ambulanter Bericht', 'Arztbericht', etc.

Figure 2 – Station related patient list in the Medical Cockpit

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The screenshot displays the Caradigm Medical Cockpit interface. At the top, a header bar shows the user's name 'Willkommen, MC Leitender Arzt Testaccoun...' and a dropdown menu 'MED - GR'. Below this, a navigation bar includes 'Startseite', 'Suchen PID FID', and 'TEST NAXOS'. The main content area is divided into several sections:

- Patient Information:** Patient: TEST NAXOS, Geburtsdatum: 22.02.2004, Eintritt: 26.04.2012 06:01, In Behandlung, PID: 625466, FID: 1027518, Klinik: ICT SO.
- Medication / Therapie:** A table showing medication history for 22.11.2012 18:30. The table has columns for Medikament, Eintritt, Mo, Mi, Ab, Na, Aktuell, and Bemerkung. The medications listed are Dafalgan 150 Supp 150 mg, Robinul Neostigmine Inj Lös, and Pantozol Filmtabl 40 mg.
- Navigation Menu:** A sidebar on the left contains links to 'Anamnese', 'Diagnosen', 'KG Anlegen', 'Operationen', 'Procedere', 'Status', 'Medikamente', 'Verlauf-Einzeleinträge', and 'Verlauf-...'. Other links include 'Dokumentübersicht', 'Anamnese', 'Diagnosen', 'KG Anlegen', 'Operationen', 'Procedere', 'Status', 'Medikamente', 'Verlauf-Einzeleinträge', and 'Verlauf-...'.
- Other Sections:** 'ORT SO ambulant 01.06.2012 FID: 1027518', 'ICT SO stationaer 26.04.2012 FID: 1027518', 'Alle Aufenthalte', 'Dokumente', 'Hospis', 'Pflege', 'Radiologie', 'Termine', and 'Datenzugriffe'.

Figure 3 – Medical Cockpit showing medical documentation

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