

SOLUTION SHEET

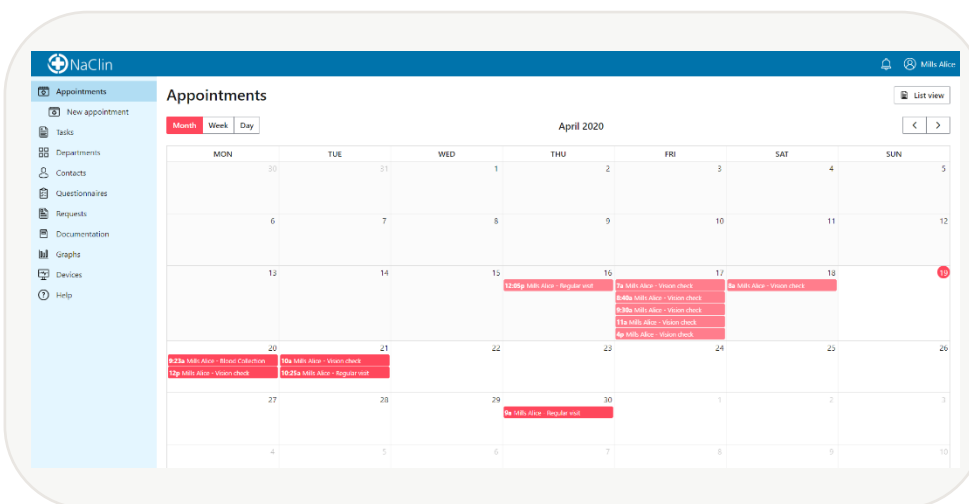
NAVERTICA

A BETTER BOTTOM LINE

Navertica Telemedicine (NaTMed)

Cloud application **Telemedicine - NaTMed** is designed for medical facilities that want to allow their clients / patients **comprehensive electronic communication** with a doctor, including viewing their documentation. On the physician's side, the communication is connected to the complex clinical system NaClin with a database structured according to the global health standard HL7.

Client / Patient gains access to the application by obtaining a login name and password from a medical facility (a combination of email, SMS, telephone or personally), which of course can be saved for easier repeated access (or as an icon on the desktop). After opening the application, the client reserves a time interval in his / her doctor's calendar by selecting from the unoccupied times. The client can choose the length of the time interval according to predefined options (e.g. preventive check-up or just writing a prescription). The doctor can mark the confirmed time in the calendar, or vice versa, the doctor can invite the client for a certain time.



Basic features of NATMed are:

- The system and the applications operate in the cloud
- Possibility to access the application by the patient from a computer, tablet or smartphone (Windows, Android, IOS)
- Free of charge access for the patient to the application
- The cost of operating the system is taken by the medical facility
- No investment requirements, operating costs only
- Payments are made monthly by bank transfer or credit card.
- Adjustable language layers
- Microsoft Dynamics 365 PowerApps platform
- Microsoft SQL database
- Communication channel Twilio
- Link to email, SMS, MMS, WhatsApp, VoIP.

© 2020 NAVERTICA a.s.

All rights reserved. All information given in this document is the property of NAVERTICA a.s. No part of this document may be copied, kept in a document system or transferred in any way, including the electronic, mechanical, photographic ones or another record and published or provided to a third party without the previous agreement and written approval of NAVERTICA a.s.

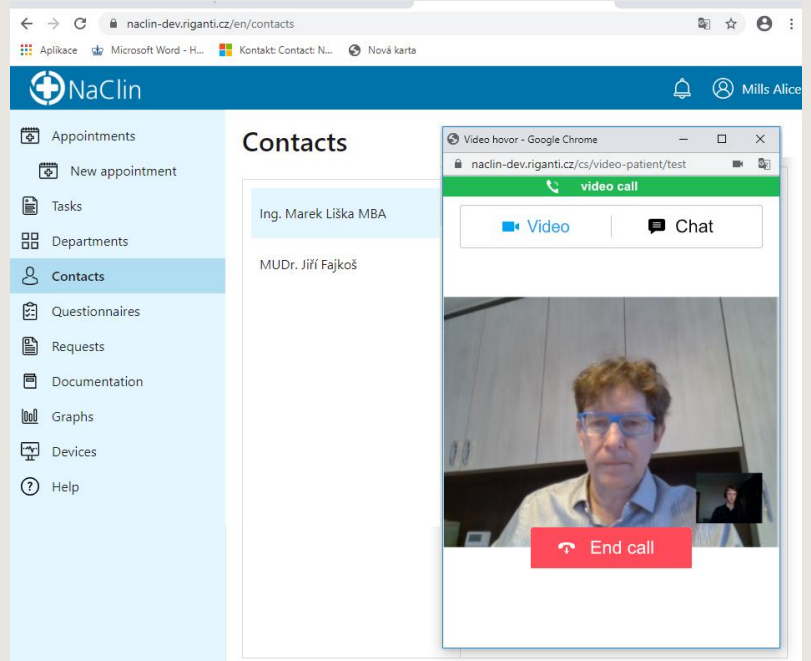
Gold
Microsoft
Partner

At the agreed time, the doctor will call the client through the application, and the application will signal the client to pick up the call. The call can also be preceded by an email notification, SMS or WhatsApp. After the client picks up the call, the communication channel connects and the health care professional can talk to the patient (voice and video) and / or chat. Attachments can also be attached to the chat, as usual.

Chat initiation can also be initiated by the client, which results in a notification message and entry in the list of required events on the side of the NaClin clinical system. However, the decision to initiate communication is with the healthcare professional. The beginning and end of the communication are stored in the appropriate record of the outpatient card maintained in the NaClin clinical system.

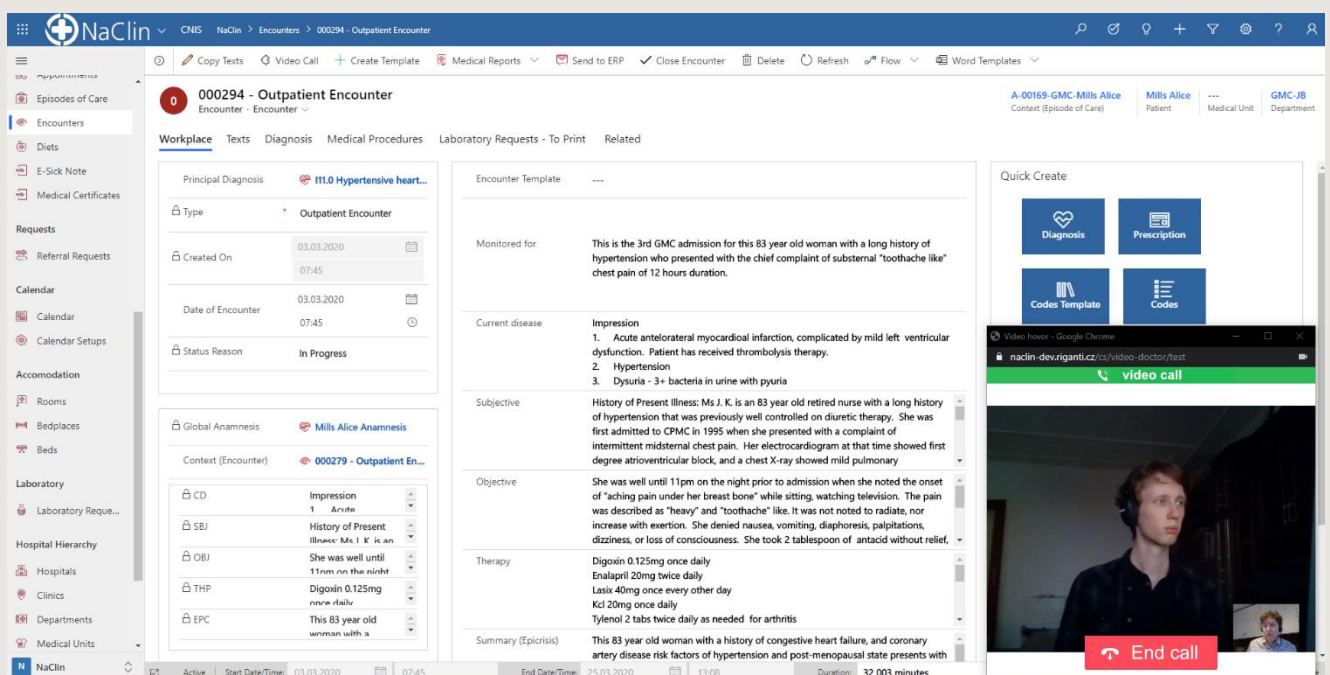
Through the communication channel it is also possible to enter tickets, including various types of attachments, which is important for gathering all contributions from both sides under one heading - patient record in an outpatient card for one case / encounter.

Video consultation on the part client portal



The communication channel also allows you to capture and transmit data from medical devices that the patient has with him. The application also allows the patient to view his / her data in a database made available to him / her by the doctor (e.g. laboratory results) without burdening the healthcare professional.

Outpatient's remote encounter and video



Outpatient's card and chat

The screenshot displays the NaClin medical software interface. The main window shows the patient's outpatient card for Alice, including her name, primary doctor (kalab dominik), and anamnesis. The chat window shows a conversation between Alice and a doctor (MUDr. Jiří Fajkoš) discussing her symptoms, such as chest pain and nausea.

Basic client / patient functionality

The NaTMed application contains a built-in patient database and related Services, in particular:

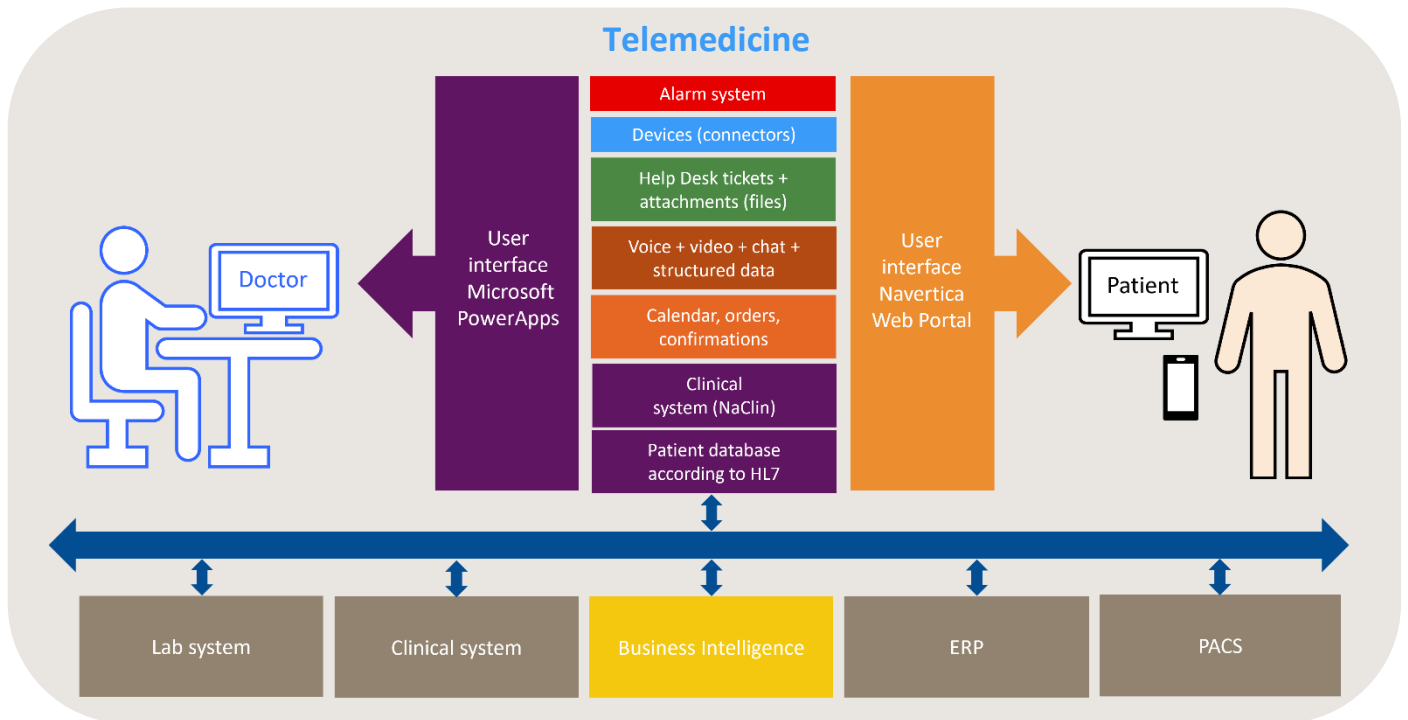
- Login to the client / patient web portal of the medical facility by name and password (or click the appropriate icon)
- Physicians' calendars including reservations, appointments and confirmations
- Secure voice and video communication, loggings are stored to the patient database
- Secure text communication (chat) stored in the patient database
- Secure communication with structured data (forms, tasks, questionnaires, tables, etc.) stored in the patient database
- Structured communication using tickets (HelpDesk) to which various attachments (e.g. messages, photos, etc.) can be added. All stored in the patient database.
- Possibility of patient views to accessible data stored in inpatient / outpatient system (e.g. laboratory results)
- Interface for on-line connection of medical devices
- Interface for alarm systems activated upon detection of predefined values of specified data fields.

Basic functionalities on the part of a healthcare professional

- Login to the inpatient / outpatient system by a healthcare professional by name and password, assignment of workplace and professional skills according to set parameters of expert teams
- Patient identification (Patient Register) including all necessary data
- Planning / ordering calendars for various doctors or workplaces
- Variable "sister" workspace of outpatient departments (calendar, patients ordered, waiting room, work in progress, closed)
- Outpatient card and records of encounters, medication, records of provided health care, lists of documents, registered consents, issuance of certificates, diets, ...
- Prescription, ePrescription, eSicknotes
- Instructions and tasks for patients, fulfillment control (e.g. application of medicines) - can be enrolled by a doctor, but above all it can be performed remotely directly by the patient via a web portal
- Requests for examination, vouchers, laboratory results, results of imaging methods
- Posting of performed services (e.g. remote consultation) for medical aids
- Statistical outputs in graphical environment BI
- Interface to other hospital systems.

Data model

The NaClin data model is derived from the Microsoft Common Data Model (CDM) for healthcare based on the HL7 international standard and is completed by other entities by NAVERTICA. CDM is a part of the Open Data Initiative, a collaboratively developed vision of Microsoft, Adobe, and SAP. Microsoft used entities of Fast Healthcare Interoperability Resources (FHIR), such as patient, plan, and state of care as the basis for the CDM for healthcare. These entities were integrated into the Dynamics 365 Healthcare Accelerator. The data model created in this way is generic with all necessary links and can be filled with data from any medical field.



Navertica Telemedicine Services (NaTMed) is part of the Navertica Hospital Information System (NaHIS), closely linked to the Navertica Clinical System (NaClin) and loosely linked to the Navertica ERP System (NaHERP). NaTMed is an application developed on the Microsoft Dynamics 365 PowerApps platform and is suitable for hospitals and medical facilities as well as for outpatient medical practices.

Solution details

Product: MS Dynamics Power Apps

Industry classification: healthcare

Specification of customer size in the market segments considered: Small and medium segment: 1-3000 employees

Supported language versions: English, Czech, possibly. other language layers

Solution cost: The price depends on the number of healthcare professionals (named users) and the volume of data transferred between the client and the healthcare facility. Client service is free of charge.

NAVERTICA a.s.

Since 1990, we have been a provider of enterprise solutions based on Microsoft Dynamics 365, Dynamics NAV/AX, Business Central and Microsoft SharePoint. Our goal is not only to deliver the systems but primarily improvement of customer's profitability to get a better bottom line by using the provided solutions. We design, implement and support horizontal solutions for manufacturing, trading, project and service companies. We have completed complex deliveries in many European countries, South Africa and the USA.

Šumavská 15, 602 00 **Brno**, Czech Republic **TEL** +420 541 425 911 **EMAIL** info@navertica.com

Na Okraji 335/42, 162 00 **Praha 6**, Czech Republic **TEL** +420 541 425 911 **EMAIL** praha@navertica.com

Bohrova 1, 851 01 **Bratislava**, Slovakia **TEL** +421 2 68 206 200 **EMAIL** bratislava@navertica.com

29 11th Ave, Rivonia, 2191 **Sandton**, South Africa **TEL** +27 11 234 8833 **EMAIL** sandton@navertica.com