Maribor, 23.8.2012

**Matter:** An offer for the system »Normar 3.0«

1. **A mobile and stationary application NORMAR 3.0 for the needs of work and time study**

In the year 2005 PISK d.o.o. successfully develeoped and launched a product called »NORMAR 2.0«. Its purpose was simplifying time studies / data gathering in the production. The system design was based on years of practical experience from slovenian and german experts in the field of REFA time data. The goal was to develop an application that runs on »Windows CE« or PDAs. Normar became the first slovenian application , that was based strictly on REFA standards; it was ment for technologists, analysts and everybody that need to gather and process time data in the production. The system was very successful on the slovenian market; nowadays more than 50 companies are using it plus both machine faculties.

In the year 2011 we made a step forward and continued our development; since the Windows CE PDAs are starting to dissapear from the market, and are replaced by newer tablet PC technology (»tablets«), we decided to develop a new version of the application for ANDROID based devices. When designing the new application for the tablet devices, we tried to maintain as much of the old functionalities and looks as possible while implementing new functionalities. Based on the fact that the new tablets are extreme capable, we tried to implement functionalities that are performed in real-time, that means during the process of conducting a time study – no more transferring to the PC!

**Advantages of the system NORMAR 3.0:**

* An extremely competitive price compared to the other systems
* Fast and easy time data gathering – no paper!
* Multitask use in the field of time and work study (REFA time study, multimoment analysis, whole-day-recording, standard times)
* Possibility of upgradin the system with other different types of methods
* The evaluation of the recording is done automatically – no need for a time consuming evaluation done per hand – time saving – effectiveness increase
* Automatical statistical analysis per study / per
* WiFi support for data transfer
* Automatical calculation of the value epsilon (statistical relevance) in RTM and while evaluating the data on the PC
* Photo / video documentation possibilites
* Calculating / evaluating the time tg te in real time (RTM)
* Relatively short/simple training for people using Normar 3.0
* Time normative archive transparency
* Simple and fast searching for data in the tree
* Data export into HTML, PDF, Excel
* Possibiliy of integration into different information systems

**2. Normar 3.0 concepts / requirements**

Normar 3.0 still consists of 2 applications: the first one is running on a PC, and a second one that is running on the tablet. The system needs a database (we're using the free version of ORACLE XE 11), that is installed on any computer – can be a local or a server installation. All Normar clients are then connecting with this database!

2 examples of an installation:



An example of a simple installation (1 user); the database and PC application is installed locally, and there is only 1 tablet for gathering data



An example of a more demanding installation: there is a database server, 3 clients that connect to the database (only 2 are used for collecting data with the tablets), and an additional tablet that connects over WiFi

**Technical requirements:**

* A PC with a P4 3.0GHz, 2Gb RAM, 5Gb disk space and an USB port
* OS MS WINDOWS (Vista, Windows 7 (32/64bit), XP isn't supported because of the tablet connectivity issues, except when connecting over WiFi)
* A tablet with Android 3.0+, minimal screen size 7inch+, a capacitive display
* Optional WiFi network

**3. Pricing**

The price of the system Normar 3.0 without tablet devices are quantity-dependant (number of users/methods):

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No. of clients** | **1** | **2-3** | **4-7** | **8-12** | **12+** |
| Time study: | 1100€ | 1045€ | 990€ | 935€ | call |
| MMA (additional): | 100€ | 100€ | 100€ | 100€ | 100€ |
| Whole day recording (additional): | 100€ | 100€ | 100€ | 100€ | 100€ |

**4. Training for Normar 3.0**

Training for using Normar 3.0 is completely practical; the analyst(s) conduct a time study in the client production and evaluate data on the PC. A normal training usually takes about 4-6 hours. The price depends on the travelling distance.

Sincerely,

PISK d.o.o. MARIBOR S. Sršen