KAIZEN SOFTWARE

OTRS®
OPERATION TIME RESEARCH SOFTWARE

6,000+ Installations Across 20+ Countries

DAe
Detailed Analytic engine

Latest Video Engine
Multi-Language Support
Patent Pending

Pursuing absolute KAIZEN in every field
Digital Workstyle for All

By presenting new ways to work that fuses digitization with the concept of KAIZEN, we create a world filled with joy.

Maturity of Digitalization

Maturity of Management

Maturity of Digital Workstyle

Human World

Digital Workstyle

Digital World

OTRS.10 concept

A software designed to accelerate the implementation of Industrial Engineering best-practice techniques to drive operational excellence into businesses of all kinds.

1. Eliminate Muri (overburden), Muda (waste), and Mura (unevenness), and improve QCD (Quality, Cost, Delivery)

2. Create standardized work practices to establish a fair evaluation system

3. Stimulate your workplace by improving the “motion mind”
Implementation case 01  Automobile manufacturer

Want to reduce the labor, time, and costs associated with work analysis.

**RESULT**

Time spent on task analysis

Reduced by **50%**

**SOLUTION**

Typically, work observation is conducted using a stopwatch, but this method makes it difficult to get accurate measurements, resulting in the need to repeat the process many times. With OTRS, an intuitive user interface and “fast-forward” and “frame advance” video control functions enable rapid on-site motion analysis.

*The OTRS10 user interface is a registered design.*

Implementation case 02  Construction material manufacturer

Want to create the optimum production process matching our new production efforts.

**RESULT**

Production output per day

108 → 150

**SOLUTION**

Identified multiple work flows and bottlenecks using the OTRS side-by-side video and operation structure simulation functions. Then performed work recombination/work rearrangement simulations to create new processes and applied them to actual production lines, enabling drastic improvements to daily production output.

*OTRS10 is capable of performing simulations linked to analyzed video.*

Implementation case 03  Electronic component manufacturer

Want to rearrange working environment for better technological training and skills transfer.

**RESULT**

Pre-line production Training hours

Reduced by **50%**

**SOLUTION**

Pre-line production training for new workers used to be “OJT”*. But with OTRS, new workers shoot video and analyzed by themselves, comparing work flow/motions of new workers against experienced workers**, which resulted in reducing a great amount of training time.

*On the Job Training. Training conducted on actual production floor through performing actual tasks.

**OTRS10 features “Rating” function that allows replay of time change simulation.*

Implementation case 04  Electrical equipment

Want to save on production line labor by optimizing production process

**RESULT**

Save production line labor

26 Per. → 19 Per.

**SOLUTION**

Conducted simulation to reduce non-value adding tasks using OTRS. Conducted pre-production line training in preparation of implementing simulated process. Able to significantly reduce non-value adding activities, such as migration and standing by to reduce production line labor.

*OTRS10 is capable of measuring non-value adding time included in working time.*
To give a concrete example, we have students create a computer
image of a production line and assemble loose parts on their own.
They then analyze their work based on videos taken of what they did. By using OTRS to perform this usually extremely time and labor intensive analysis, they are able to efficiently identify waste in the
process and make improvements.

I wanted their analysis to be done in a way that seems as little like
analysis as possible, but rather just focusing on using their heads to
observe the things in front of them, and I introduced OTRS with the
notion of putting the things they have to think about right in front of
their eyes. It has been very popular with my students and has produced tremendous results.

“Standard Time” and “Mind-Motion Mindset”

There are very few companies that have the ability to properly
perform time analysis on the actual production floor. The compa-
ries are very much aware that time analysis is very labor intensive
and time consuming, so it is understandable that time analysis
tends to be put on the back burner.

“Standard Time” and “Mind-Motion Mindset” are the key elements in advancing KAIZEN. Standard Time is the core element in
production management and serves as an index. If an operation is being performed quicker than its standard time, it is time to review
standard operation and standard time. On the other hand, if an
operation cannot be performed within the standard time, the cause must be identified and rectified. Mind-Motion mindset, is the mindset to be always be on the lookout for more efficient ways. A company that has the correct under-
standing of IE is aware of the importance of having this Mind-Motion mindset and conducts detailed time analysis to
return concrete results. It is said that you cannot achieve such results unless time analysis is properly conducted.

The highest hurdle one often encounters in trying to seriously improve task performance is Time Analysis. I believe that
OTRS is not only a useful tool in resolving this issue, but it is also a software that can contribute towards raising aware-
ness of KAIZEN in industries as a whole.
Process from implementation to execution

1

Pre-introduction
Meeting
Select suitable OTRS
product model
Decide license quantity

2

Implementation
Registration support
Product installation

3

Practical
Training
Tutorial training
Practice learning

4

Operation
Shoot video
Analyze / Standardize

OTT Support Service

*Free Support provided for the initial year

OTT Contact Center
Operators are on hand to answer questions
regarding the product and its operation
via a toll-free number* and e-mail.
*Only available in Japan.

OTT Support Web
In addition to operation
and setting manuals, video manuals are also available.

Latest version upgrades
(Updated twice a year)
The latest program upgrades
can be downloaded
from the OTRS support web site.

System requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS</td>
<td>Windows 10 Pro / 8.1 Pro / 7 Pro SP1 or later</td>
</tr>
<tr>
<td>CPU</td>
<td>Intel Core i5 series 2nd generation or later 2.6 GHz</td>
</tr>
<tr>
<td>Memory</td>
<td>4GB or more</td>
</tr>
<tr>
<td>HDD</td>
<td>2.2 - 6 GB of disk space (Required disk space will vary according to functions required.)</td>
</tr>
<tr>
<td>Display</td>
<td>1024 x 768 dots (XGA) or higher</td>
</tr>
</tbody>
</table>
| Video format         | MPEG1, MPEG2, AVI (Motion JPEG), MOD, MP4, AVCHD, WMV *Dolby audio playback non-compliant
*WMV is usable only with video output from OTRS10. |
| Language             | Japanese, English (Language registration required for other languages.) |
| USB Port             | 1 for protection key *USB authentication key            |
| Simultaneously       | MS Visual C++ 2010 Runtime                             |
| installed bundled    | MS .NET Framework 4.6.1                               |
| software             | MS Speech Platform 11                                  |
| Use Port             | MS Visual C++ 2010 Runtime                             |
| Simultaneously       | MS .NET Framework 4.6.1                               |
| installed bundled    | MS Speech Platform 11                                  |
| software             | MS Visual C++ 2010 Runtime                             |
| Language             | Japanese, English (Language registration required for other languages.) |

OTRS is a registered trade mark of Broadleaf Co., Ltd. in Japan.
Microsoft, Windows, Excel and PowerPoint are registered trademarks of Microsoft Corporation in the United States and / or other countries.
Intel, Core are registered trademarks of Intel Corporation or its subsidiaries in the United States and / or other countries.
Adobe Acrobat Reader DC is a registered trademark of Adobe Systems Incorporated in the United States and/or other countries.
Other names of companies and products mentioned herein are trademarks of the respective companies or of this company.
Please be advised that design and / or specifications of the products may be changed for improvements without prior notice.
The contents, figures and specifications listed herein are as of August 2018.
To output documents in Excel (PowerPoint / PDF, Excel (2010, 2013 or 2016), Acrobat DC are required.
DVD Drive is required to install OTRS from DVD. Operating OTRS may become slow depending on PC performance and data volume of video used.
For your greater convenience and comfort in using OTRS, we recommend you use PC with high-spec CPU and large RAM.

http://www.broadleaf.co.jp

For more information or request for brochure ► shinkamanagement.com/otrs

Product information and sales inquiries:

Shinka Management
Contact: Paul Smith
E-mail: admin@shinkamanagement.com
International: +61 430 581 899
USA: +1 571 524 7231
Japan: +81 90 1365 5588

http://shinkamanagement.com