

CSA

Automatic Supervisor and Control System V 1.0

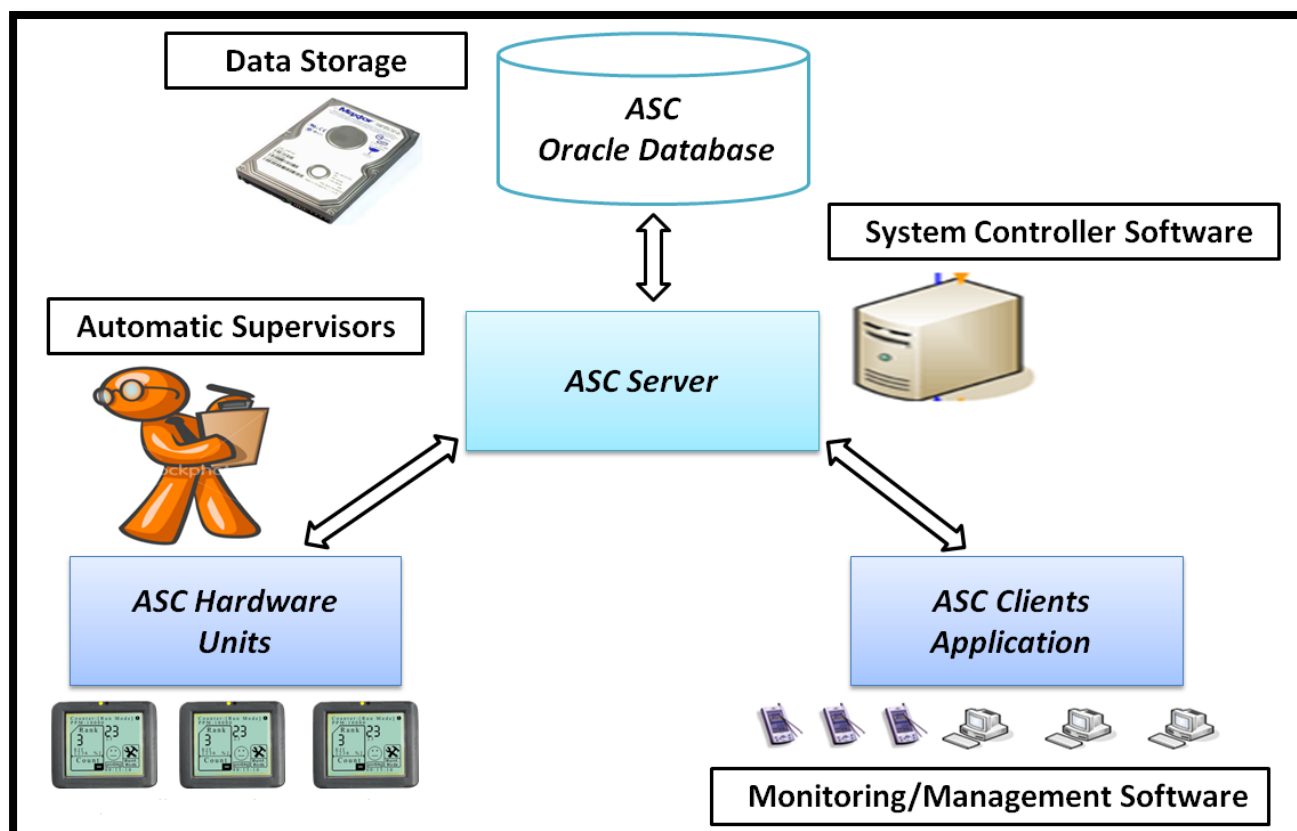


ASC System Description:

ASC system applies method for monitoring in a real-time manner the efficiency and/or internal quality level of a company down to the level of individual tasks, the system comprises:

- **Apply automatic supervisor concept as if the organization has hired an industrial engineer for each production and quality worker.**
- **Give organization management full control on all workers and employees.**
- **Apply new concept for monitoring the efficiency & PPM of an organization and down to the level of Departments, Groups and Workers.**
- **Build communication system between all workers and their managers.**
- **Give each worker Real time feedbacks of salary, efficiency, PPM, error counter, revised counter, operation standard time and other needed parameters.**
- **Generate some useful statistics which guide the management to take correct decisions like statistics about stoppages or operations errors.**
- **Motivate employees by bonuses relative to increased efficiency.**
- **Generate an atmosphere of competition between the workers**
- **Help the worker to fine tune his performance by giving him a second by second feedback about his performance level.**
- **Differentiate between active and less active workers giving a sense of justice.**
- **Increasing the performance level of the utility departments.**
- **Maximize the team work spirit.**

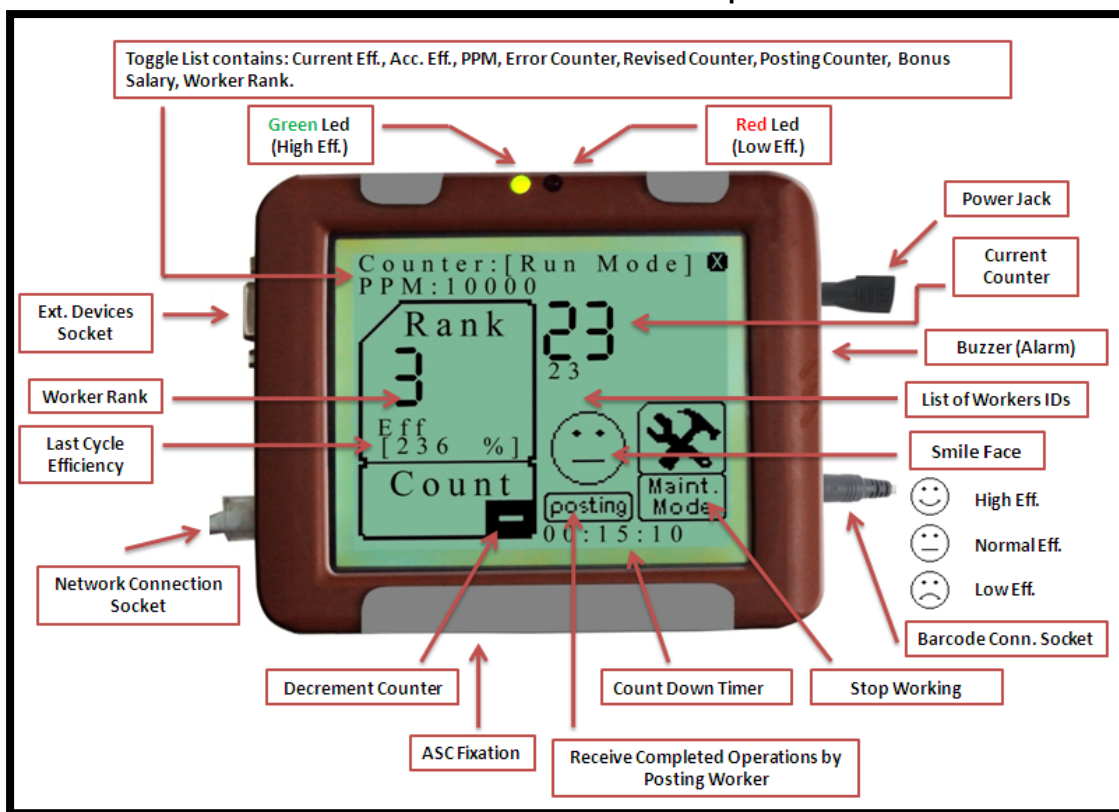
ASC System Block Diagram:



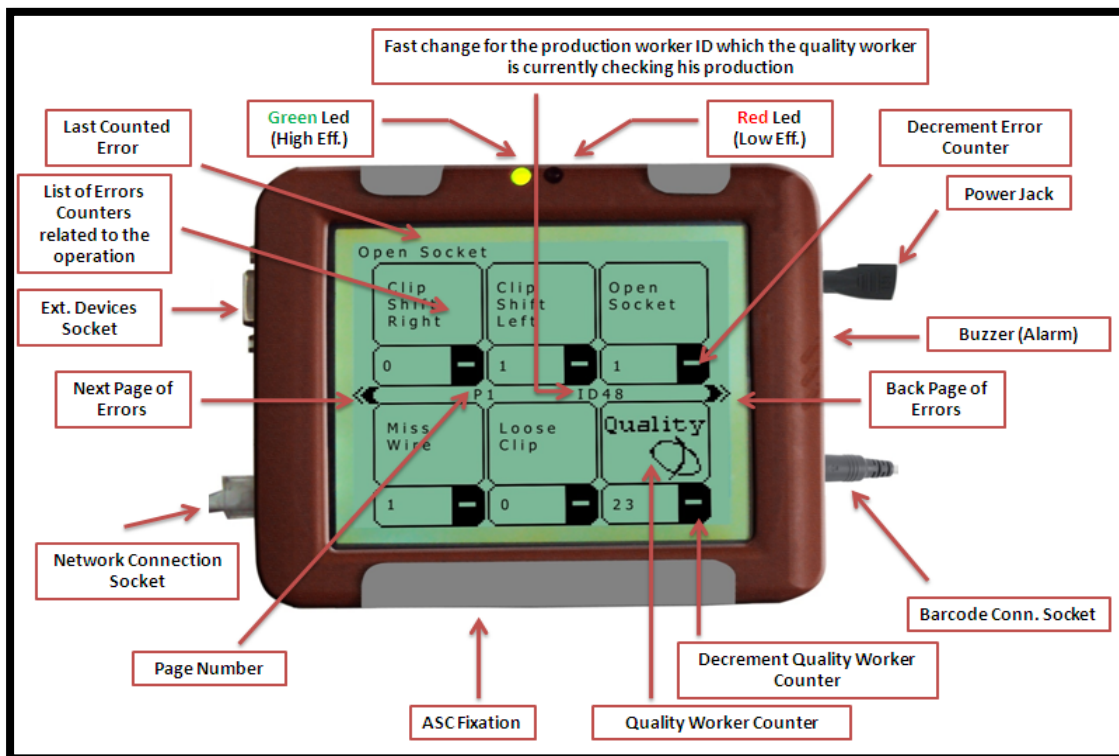
erugiF 1: ASC Block Diagram

ASC Hardware Unit:

ASC hardware unit works as an automatic supervisor for each worker.



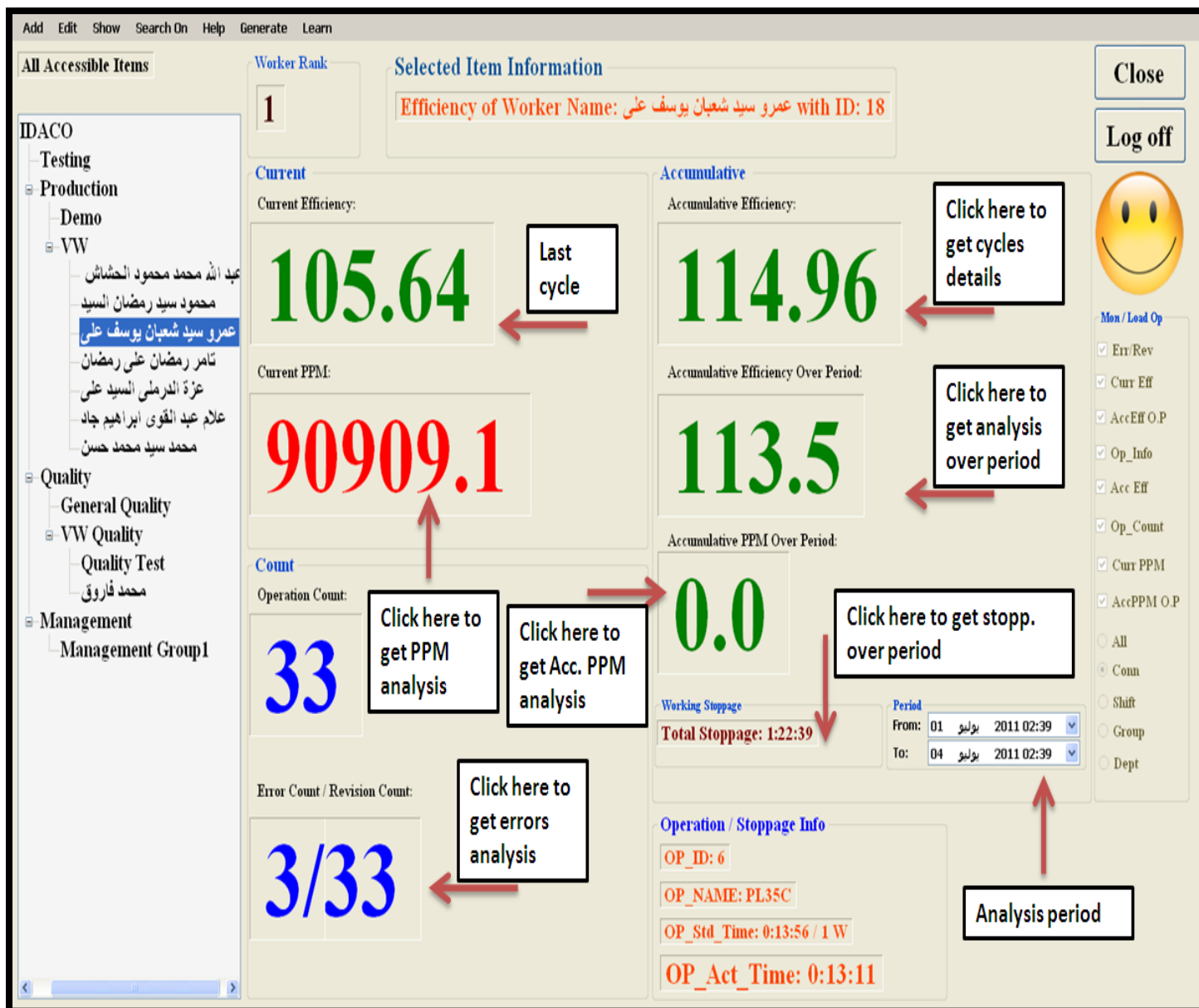
erugiF 2: ASC Hardware Unit Production Worker



erugiF 3: ASC Hardware Unit Quality Worker

ASC Client Application:

The software application runs on different points in the organization or factory which enables supervisors and managers to monitor the workers, groups, departments and organization in a real time mode according to the privilege of the user.



The screenshot displays the 'Worker Details' page for worker ID 18. The interface is organized into several sections:

- Worker Rank:** 1
- Selected Item Information:** Efficiency of Worker Name: عمرو سيد شعبان يوسف على with ID: 18
- Current Metrics:**
 - Current Efficiency: 105.64 (Last cycle)
 - Current PPM: 90909.1
 - Operation Count: 33
 - Error Count / Revision Count: 3/33
- Accumulative Metrics:**
 - Accumulative Efficiency: 114.96
 - Accumulative Efficiency Over Period: 113.5
 - Accumulative PPM Over Period: 0.0
 - Working Stoppage: Total Stoppage: 1:22:39
- Operation / Stoppage Info:**
 - OP_ID: 6
 - OP_NAME: PL35C
 - OP_Std_Time: 0:13:56 / 1 W
 - OP_Act_Time: 0:13:11
- Navigation and Settings:**
 - Left sidebar: IDACO tree view (Testing, Production, Demo, VW, Quality, Management).
 - Right sidebar: User profile (smiley face), Mon / Load Op, and a list of checkboxes for data selection (Err/Rev, Curr Eff, AccEff O.P, Op_Info, Acc Eff, Op_Count, Curr PPM, AccPPM O.P, All, Conn, Shift, Group, Dept).

Red arrows and callout boxes indicate the following actions:

- Click here to get cycles details (points to Accumulative Efficiency)
- Click here to get analysis over period (points to Accumulative Efficiency Over Period)
- Click here to get PPM analysis (points to Current PPM)
- Click here to get Acc. PPM analysis (points to Accumulative PPM Over Period)
- Click here to get stopp. over period (points to Working Stoppage)
- Click here to get errors analysis (points to Error Count / Revision Count)
- Analysis period (points to the Period selection dropdowns)

erugiF 4: ASC Client Application Worker Details

Add Edit Show Search On Help Generate Learn

All Accessible Items

- ▣ IDACO
 - ▣ Testing
 - ▣ Production
 - ▣ Demo
 - ▣ VW
 - الله محمد محمود الحشاش
 - محمود سيد رمضان السيد
 - و سيد شعيبان يوسف على
 - تامر رمضان على رمضان
 - عزة الدرمني السيد على
 - لام عبد القوي ابراهيم جاد
 - محمد سيد محمد حسن
 - ▣ Quality
 - ▣ General Quality
 - ▣ VW Quality
 - ▣ Quality Test
 - محمد فاروق
 - ▣ Management
 - ▣ Management Group1

Worker Rank

Selected Item Information

Efficiency of Group Name: VW with ID: 1

Close

Log off



Current

Current Efficiency:

80.88

Current PPM:

37974.68

Accumulative

Accumulative Efficiency:

90.83

Accumulative Efficiency Over Period:

75.79

Count

Operation Count:

225

Accumulative PPM Over Period:

113636.4

Error Count / Revision Count:

4/79

Working Stoppage

Period

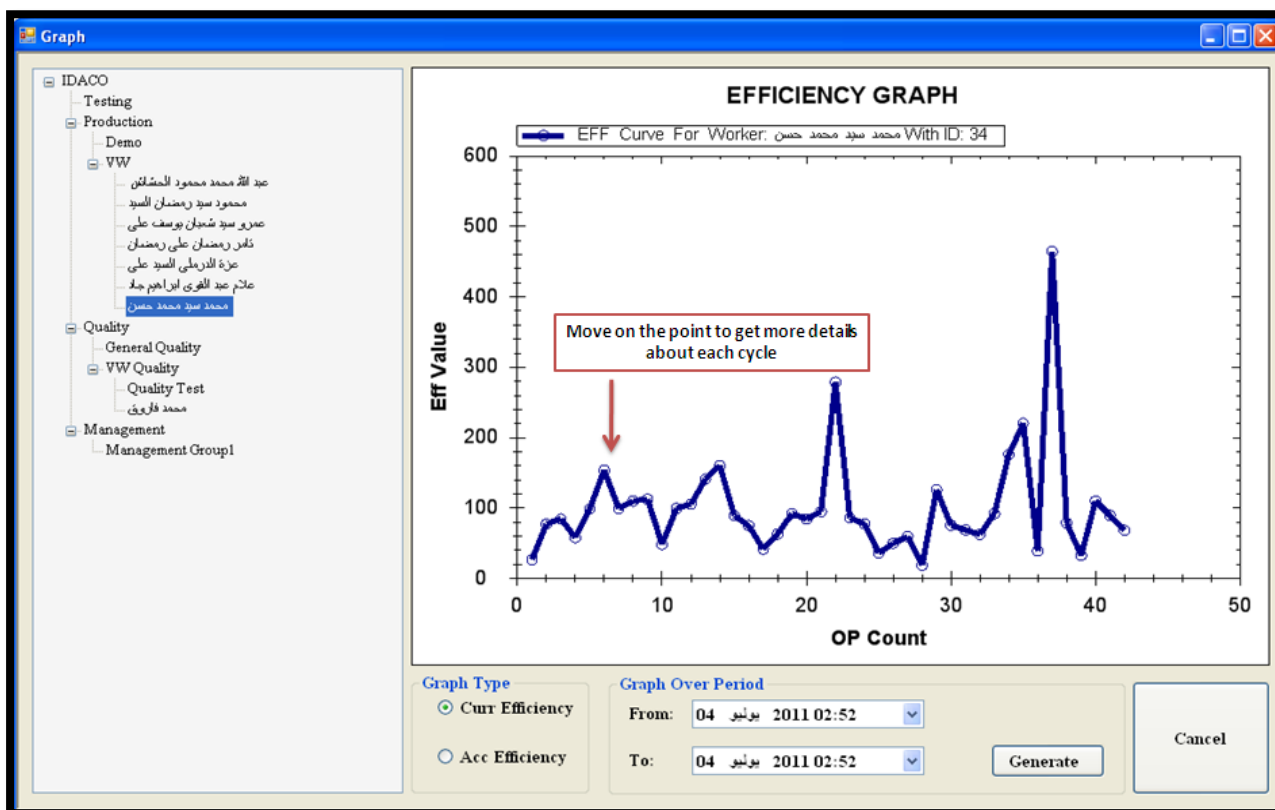
From: 03 يوليو 2011 02:49

To: 04 يوليو 2011 02:49

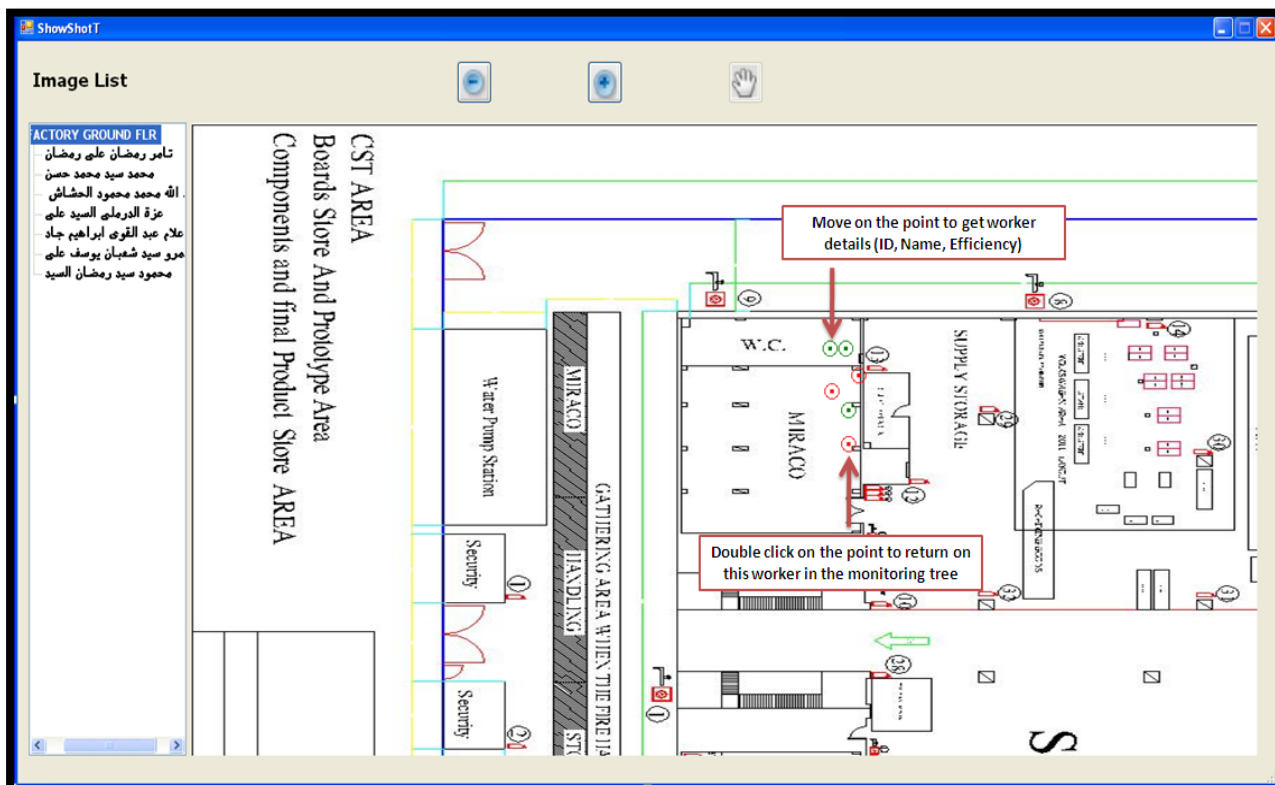
Operation / Stoppage Info

- Mon / Load Op
- Err/Rev
 - Curr Eff
 - AccEff O.P
 - Op_Info
 - Acc Eff
 - Op_Count
 - Curr PPM
 - AccPPM O.P
 - All
 - Coun
 - Shift
 - Group
 - Dept

erugiF 5: ASC Client Application Group Details



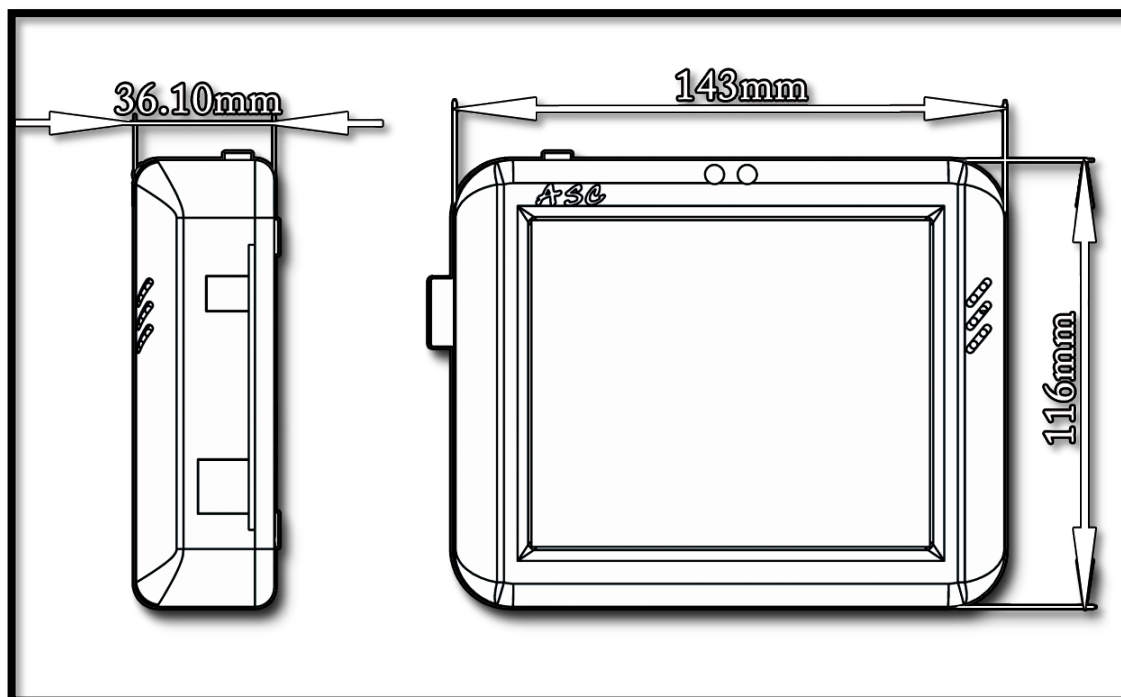
erugiF 6: ASC Client Application Worker Graph



erugiF 7: ASC Client Application Workers Location Monitoring

ASC Hardware Unit Technical Specification:

- ✓ **ASC Dimensions:** ASC Hardware Unit dimensions described in the following figure:



erugiF 8: ASC Hardware Unit Dimensions

- ✓ **4.7 " LCD.**
- ✓ **Resisting touch screen.**
- ✓ **9 Volt power supply.**
- ✓ **Barcode connection.**
- ✓ **External devices socket.**
- ✓ **Network connection socket.**
- ✓ **Buzzer and two LEDS.**

ASC System Installation Requirements:

1. Just adapter and network point for each hardware unit in the system.
2. Install ASC Server and ASC oracle database on Administrator PC.
 - ✓ **Operating System: Windows XP/Vista/Seven.**
 - ✓ **Installation Requirements: Oracle Installation Products.**
3. Install ASC Monitoring Client on Any PC in the organization.
 - ✓ **Operating System: Windows XP/Vista/Seven.**
 - ✓ **Installation Requirements: Oracle Client Product.**

Contact Information:

Tel: (+20-2) 38 33 24 61 & (+20-2) 38 33 25 39

Fax: (+20-2) 38 33 24 60

Address: 3rd Industrial Zone – No. 243 / 17+250 – St. 36 – 6th October City - Egypt

P.O.Box: 61, **Postal Code:** 12566

E-Mail: asc@idaco-egypt.com

Web site: www.idaco-egypt.com