

**FOSS**

Mosaic networking software  
for raw milk testing instruments



# MOSAIC

Mosaic networking software is a free software option for FOSS BactoScan and CombiFoss solutions. It allows multiple instruments to be monitored and configured from a single desktop, reducing the cost of ownership of multiple installations and making day to day maintenance tasks such as calibration updates quicker and considerably more convenient. If required, the software can also allow FOSS experts to access data for remote support via the internet.

Dedicated Analytical Solutions



## Reinforce your GLP

The improved instrument-monitoring and reliable calibration updates enabled by Mosaic help to improve the performance of each individual instrument. You can also generate reports on key aspects of your instruments and you can search, inspect and compare samples, raw data and audit-trails from all your instruments. You can:

- Inspect instrument events and log-files
- Run dedicated reports on e.g. repeatability or Zero-settings across all instruments
- Export data for calibration, further data analysis in Excel or any other purpose...

## Everything under control from one place

Give your feet a rest by running your milk-testing equipment from your desktop. If you have a calibration update for the Ketosis test for instance, you can send it to all the relevant instruments with a single click. It is much faster than going from one instrument to another and the risk of doing something wrong on one of the units is avoided. Now, when you click update, you'll know that all your instruments are exactly alike and all measuring the same. With the free Mosaic network software you can do lots of actions like this from your desk. You can:

- Set-up instruments
- Monitor calibration performance
- Monitor instruments

## Reducing the cost of ownership

The 'do it once from one location' aspect of Mosaic helps to reduce your operational costs.

Adjustments to calibrations for example can be made without interruption to the throughput of samples (updates can be transferred to the instruments during the night). Plus, the time taken for periodic slope/intercept adjustments can be dramatically reduced because you can adjust all parameters on all instruments in one go.

Say you have 10 instruments to adjust. With manual methods it could easily take two full days and typically it will be done four times a year. With Mosaic it takes seconds to make an adjustment, reducing the two days to less than an hour.

## Always in touch with a FOSS expert

Use Mosaic to work with FOSS Support. With a FOSS expert always available with remote support, you can reduce the need for onsite specialists and save on travelling and staffing expenses while maintaining a more sustainable business. This also increases continuity and reduces the risk of performance variation, errors and deliberate tampering. Support services via Mosaic include:

- Calibration performance monitoring
- Lock prediction models to prevent local adjustments to prevent errors from inexperienced staff and manipulation of results when screening for milk adulteration
- Slope/intercept adjustment of slope/intercept can be locked in order to prevent incorrect use

## See other sites and let others look at you

If you are running more than one laboratory, you can look into data at other sites and make sure that all instruments are aligned. You can check that all instruments across all sites in your organisation are measuring the same for the benefit of your laboratory and for farmers. After all, a difference of just 0.02% in fat content can make a big difference to payments. You can also grant others permission to look at your analysis data, for instance if an authority needs to check that bacteria analysis is being performed correctly.

# Technology

The concept of Mosaic is based on central configuration, support and surveillance.

A, Make an update or change once – no more walking up to each instrument importing and configuring a new calibration (e.g. new or updated calibrations, calculated parameters, limits etc.)

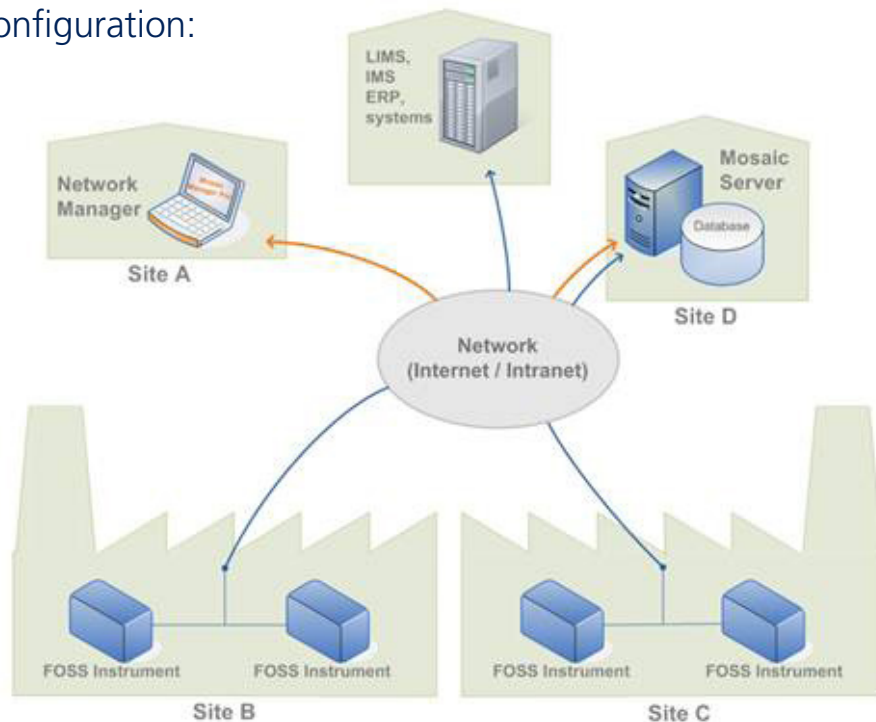
## The 3 parts of a Mosaic network

B, 1. A server collecting all information for the entire network in its database

C, 2. One or multiple Mosaic clients communicating with the Mosaic server

D, 3. The instruments receiving configuration and delivering results, events etc to the server

Typical configuration:



*Instead of dealing with each instrument on its own, Mosaic allows you to perform operations such as configuring and monitoring multiple instruments from one computer at one time.*

## What is it possible to monitor with Mosaic?

To follow the instruments' performance Mosaic users can pull the following predefined reports:

- **Zero**

Monitoring of Zero will identify if there is an accumulated zero drift, indicating that the hardware performance is not optimal.

- **Check samples**

Monitoring the quality of the entire analytical procedure, including instrument stability over a time period, reveals if an instrument is drifting or a new S&I might be necessary.

- **Slope/Intercept**

Mosaic tracks all historical adjustments made. This way it is possible to identify if a completely new calibration should be made or if unauthorised changes have been introduced.

- **Repeatability**

To check instruments' repeatability. Bad repeatability affects measurement results.

- **Carry-over**

To check the effectiveness of rinsing an instrument

- **Frequent events**

The frequent event report identifies the number of warnings or errors an instrument has had over a certain time period. This gives an overview that can be used for identifying errors which might influence the results and indicate that the instrument needs service.

## Requirements

- Windows XP SP3 or Windows Vista Ultimate SP 1
- .NET Framework 3.5 SP1
- Internet Explorer 7
- 2 GHz CPU speed (minimum)
- 1 GB RAM
- 4 GB free disk space
- SVGA at 1024\*768, min. 16-bit colors. 1280x1024 recommended
- Internet connection

## Support agreement

You can choose to host Mosaic and data locally on a private server or have a FOSS hosted solution.

<b>Mosaic Services:</b>	<b>Link</b>	<b>Assist</b>	<b>Complete</b>
Routine Analysis Software upgrade (specified by FOSS)	FOSS	FOSS	FOSS
Mosaic Server hosting	FOSS	FOSS	FOSS
Access to Mosaic Network 24/7 *	FOSS	FOSS	FOSS
Automated central backup and storage	FOSS	FOSS	FOSS
Online training of operator and Network Manager	FOSS	FOSS	FOSS
Setup and configuration of customised Mosaic network	FOSS	FOSS	FOSS
Network, product, and client configuration assistance	★★	FOSS	FOSS
Periodical Status Reports	★★	FOSS	FOSS
Daily instrument surveillance: <ul style="list-style-type: none"> <li>• Verify instrument diagnostics</li> <li>• Verify check sample statistics</li> <li>• Verify calibration statistics</li> <li>• Check instrument error or warning events</li> <li>• Check synchronisation issues</li> </ul>	★★	FOSS	FOSS
Calibration updates when released	★★	★★	FOSS
Customised network reports (2 per year)	★★	★★	FOSS
Priority troubleshooting, support and guidance from FOSS specialist	★★	★★	FOSS
Periodical calibration monitoring/management (as required): <ul style="list-style-type: none"> <li>• Adjust Slope/Intercept for FOSS calibrations</li> <li>• Calibration development support for customer specific calibrations</li> </ul>	★★	★★	FOSS

\* Subject to brief Server Maintenance and update periods

\*\* These services are supported in Mosaic but will not be performed by FOSS

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