



| operational process automation |

Cross-Industry Platform for achieving Operational Efficiency

Avoid duplication of effort and data through
solutions framework



Streamline and automate operational processes with
unparalleled flexibility



Efficiently manage data and link systems through
web services



Opturo's mission is to deliver technology solutions to our clients to optimize their operational processes.

We combine business intelligent data management, efficiency tools and flexible architecture to provide clients with the infrastructure they require to:

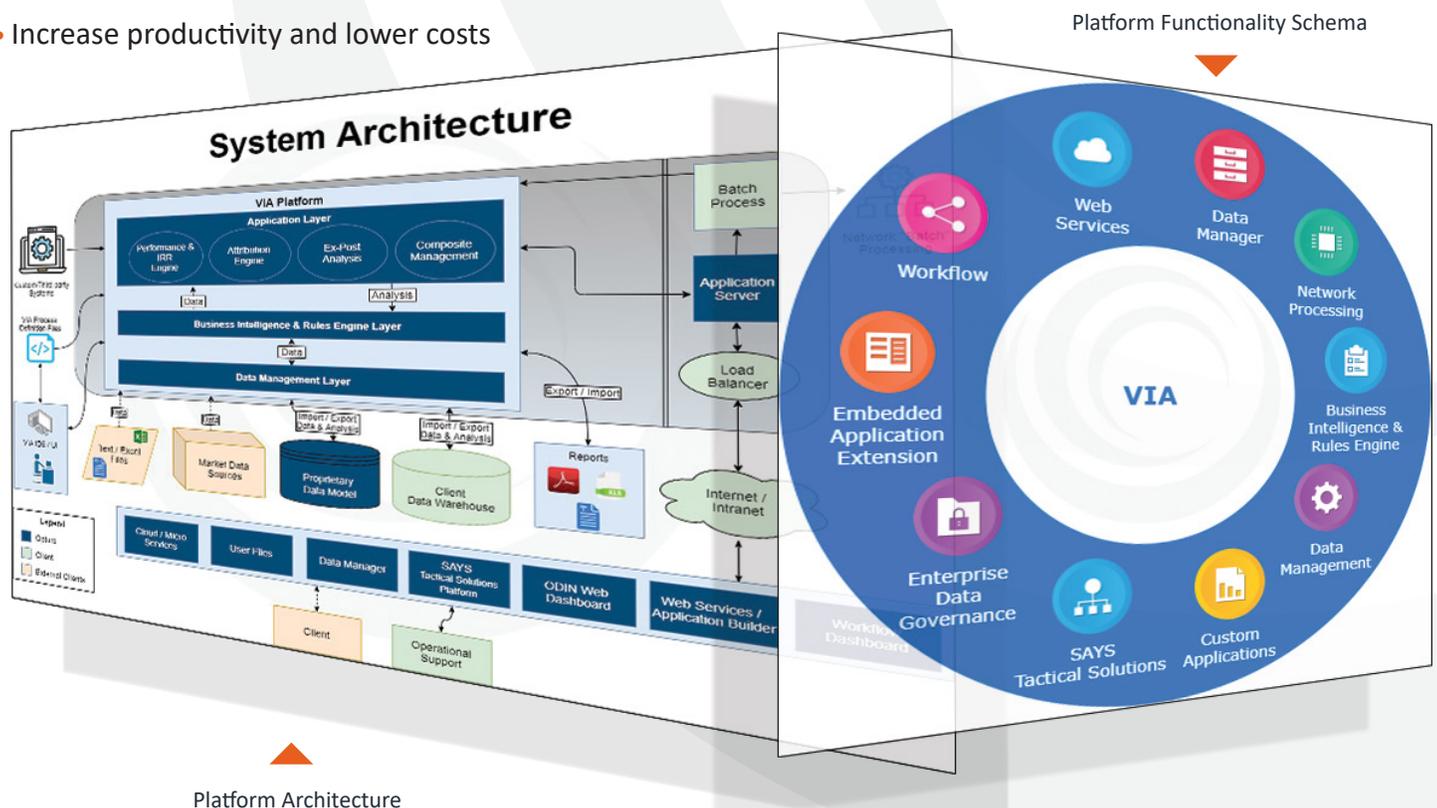
- Effectively manage data and create services around it
- Avoid data replication and redundancy by allowing existing systems to communicate effectively
- Address a wide range of operational requirements without the need for multiple disparate systems
- Avoid homegrown Band-Aid Tactical Solutions that are difficult to support and maintain in the long-term
- Effectively manage operational workflows and scale on-demand
- Increase productivity and lower costs

Opturo Provides:

- Operation critical products including Data Management, Business Intelligence & Rules Engine, Application Building Framework, Web Service, Data Governance, Workflow Management and Large Volume Batch Processing functionality
- Flexibility to allow for automation of every aspect of the Operations Cycle
- Server, Desktop, Web and Mobile Applications

Opturo's Advantages:

- Designed with a holistic approach to the entire Operations Cycle
- A platform that adapts to each firm's needs, not the other way around
- Supports rapid deployment of solutions for critical data driven issues
- Customization of reporting and other operation processes
- Offers Workflow Management and ability to scale on-demand



VIA Platform

efficiency

through

automation



Opturo offers a range of products that work in concert to streamline and automate every aspect of the operations cycle, thereby improving efficiency and lowering cost.

Virtual Implementation Architecture

(VIA) Platform is a one-of-a-kind offering that provides a collection of tools that seeks to help large scale enterprises with every aspect of the Operations cycle while avoiding duplication of effort and data. It provides the foundational platform to other value-add products.

Opturo has pioneered the concept of a “Solutions Platform” that provides a stateless and modular API based approach to designing and implementing any process or custom application. Since its core components have been built without “assumptions”, it can be leveraged across any industry.

HIGHLIGHTS

Process Manager: Any Web Service can be rendered as an Application within an iframe in any third-party portal.

Data Manager: Maintenance tool to add/modify any database data (e.g.: Transaction, Price etc.) with data audit tracking feature.

Data Governance: Provides a Bolt-On platform to define policies and rules in real-time across the entire enterprise to securely access and protect sensitive data.

Application Builder: Dynamically renders a UI within an iframe for the above three listed products. This feature allows seamless incorporation of the Platform’s functionality within any third-party portal. It includes the ability to customize the look and feel which can be used to enhance an existing portal’s functionality with little effort.

Network Processing: Allows for the limitless scaling of extremely large volume “Batch Processes” across one or many machines in a network.

Workflow: Provides a robust engine to design, execute and monitor a wide range of custom daily operational workflows.

Web Service Process List that documents the URL and optional arguments

Any Web Service can be rendered into an Application within an iframe in any third-party portal

Parameter Definition

Parameter Label	Parameter List	Default Value	Parameter Type
Fund Selection	RAW_FUND_NAME	Global Growth	Drop Down Field
Benchmark Selection	RAW_BM_NAME	S&P 500	Drop Down Field
Market Selection	RAW_MKT_NAME	S&P 500	Drop Down Field
Report List	RAW_REPORT_LIST	Return Summary,Risk Summary	Drop Down Field
Return Start Date	RAW_START_DATE	2009101	Date Field
Return End Date	RAW_END_DATE	20140331	Date Field
Worst/Best Period (months)	RAW_WORST_BEST	3	null
Risk Free Rate (%)	RAW_RFR_RATE	2.6	null
Marginal Acceptance Rate (%)	RAW_MAR_RATE	4.5	null
Rolling Term (months)	RAW_ROLLING_TERM	60	null
Use RFR Return Stream	RAW_USE_RFR_STREAM	false	Drop Down Field
Use MAR Return Stream	RAW_USE_MAR_STREAM	false	Drop Down Field
Gross/Net Return	RAW_GROSS_NET	Gross Return	Drop Down Field
Reporting Currency	RAW_RPT_CURRENCY	U.S. Dollar	Drop Down Field

Example GET Request

```
http://ods1.opturo.com/ODS1/ODS1Server/Get/EX_POST_MER_SERV208_BA7A?user=ed5118kapsky&onD111900P4...
```

Show/Hide Form Example

Parameter Label	Parameter Value
Fund Selection	US Growth GLOBAL Growth Demo Agri Multi-Strategy Demo Lone Star Real Estate
Benchmark Selection	BofA ML US High Yield Master II S&P 500 Russell 1000 MSCI EAFE

Ex-Post Web Service Data

Fund Selection: US Growth

Benchmark Selection: S&P 500

Market Selection: S&P 500

General Settings | Date Settings | Reporting Options | Advanced Settings

Report List: Return Summary X Risk Summary X Annual Returns X Latest Returns X Monthly Returns X

Generate Report

Powered by opturo

Network Processing - Logging

OPT Cluster Server Status

Choose a log file to view: 20200127_15.40.58.773_DAILY_SEG_PERF.wa

Queue Name: DAILY_SEG_PERF

Completed Jobs | Running Jobs | Worker Info | Broker Info

Drag a column header and drop it here to group by that column

Portfolio ID	Valuation Date	Worker Id	Worker Machine
OPT_FUND_8	01/03/2011	ip-172-31-28-170:~XIH3H	ip-172-31-28-170
OPT_FUND_8	01/19/2011	ip-172-31-28-170:~VL3eN	ip-172-31-28-170
OPT_FUND_1	12/26/2011	ip-172-31-28-170:~VL3eN	ip-172-31-28-170
OPT_FUND_1	12/14/2011	ip-172-31-28-170:~XIH3H	ip-172-31-28-170
OPT_FUND_1	10/24/2011	ip-172-31-28-170:~wCBGZ	ip-172-31-28-170

Workflow Watch

Client Performance Workflow - Load/Recon/Calc

Client Performance Workflow - Load/Recon/Calc [bzZjBk] Completed with Errors

This is an example of a typical performance workflow, that loads client data files for a range of dates, performs data validations, generates security/segment/portfolio performance to database and sends status emails

Refresh Off 1/27/2020, 9:58:35 AM (Refresh every 5 sec)

Ran By: CHRS

Started: 1/22/2020, 12:02:24 PM

Finished: 1/22/2020, 12:06:36 PM

Total Runtime (min): 2:52 min

Name	Host ID	Host Machine Name	Start Time	Job Completion Time	Run Time (Sec)	Session Number
Download Client Data Files	ip-172-31-28-170:~pb1aw	ip-172-31-28-170	27-Jan-2020 09:42:22 PM	27-Jan-2020 09:42:29 PM	7.00	10000
Client Data Files Status Email	ip-172-31-28-170:~pb1aw	ip-172-31-28-170	27-Jan-2020 09:43:27 PM	27-Jan-2020 09:43:29 PM	2.00	10000
Recon Trade Quantity	ip-172-31-28-170:~pb1aw	ip-172-31-28-170	27-Jan-2020 09:43:30 PM	27-Jan-2020 09:43:30 PM	0.00	10000

Unlimited scalability achieved by distributed computing for large volume Batch Processes

Efficient monitoring and control of the Operation cycle delivered though Workflow Management

SAYS TACTICAL SOLUTIONS PLATFORM

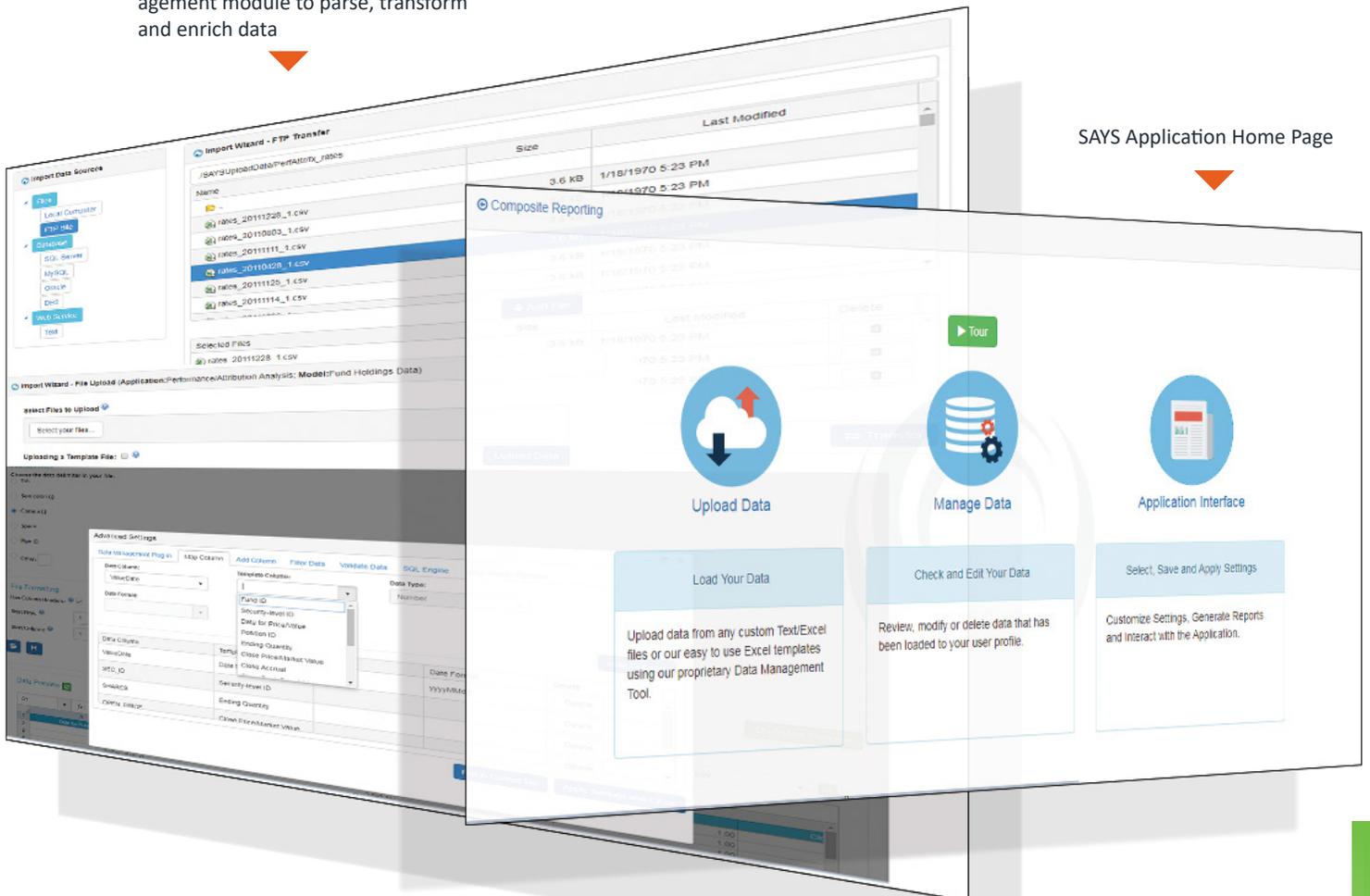
Opturo has pioneered a framework that allow firms to rapidly design and implement solutions without the need for database tables, replicating data and writing new scripts/code.

The key advantage Software At Your Service (SAYS) offers to firms across any industry is a resource to rapidly address tactical data management and business process/analysis problems, and to do so without long term contracts, expensive hardware/software implementations and accompanying long term financial commitments.

Robust upload feature with data management module to parse, transform and enrich data

The platform has the following components:

- **Config-driven Dynamic Data Store Layer** – Our proprietary Data Store enables flexible and rapidly deployed data models.
- **Business Intelligence and Analytics** – Apply your custom Business Intelligence and/or Analytics to your data. Third-party system API's can also be integrated into custom solutions developed on SAYS.
- **Interface Layer** – Rapidly design a custom UI using our proprietary config-driven dynamic HTML application builder.
- **Reporting Layer** – Output the results of your custom solution to Excel, Text, Web Dashboards, Web Services, PDF or Database.





CONTACT INFORMATION

Address: OPTURO, INC.

15 Paradise Plaza, #260
Sarasota, FL 34239
USA

Phone: +1 800 695 2370

Fax: +1 888 414 0079

Client Support Hotline: +1 800 695 2370 ext 9

Sales: +1 800 695 2370 ext 1
sales@opturo.com

Technical Support: support@opturo.com