



Products Presentation

SpinBoard

- SpinBoard is a *highly customizable, Web based, low-code*, aggregation and visualization platform for heterogeneous data.
- SpinBoard is built with two main concepts in mind:
 - provide the user with an extremely intuitive, self configurable interface
 - easily allow the integration of huge amounts of data, coming from heterogeneous sources

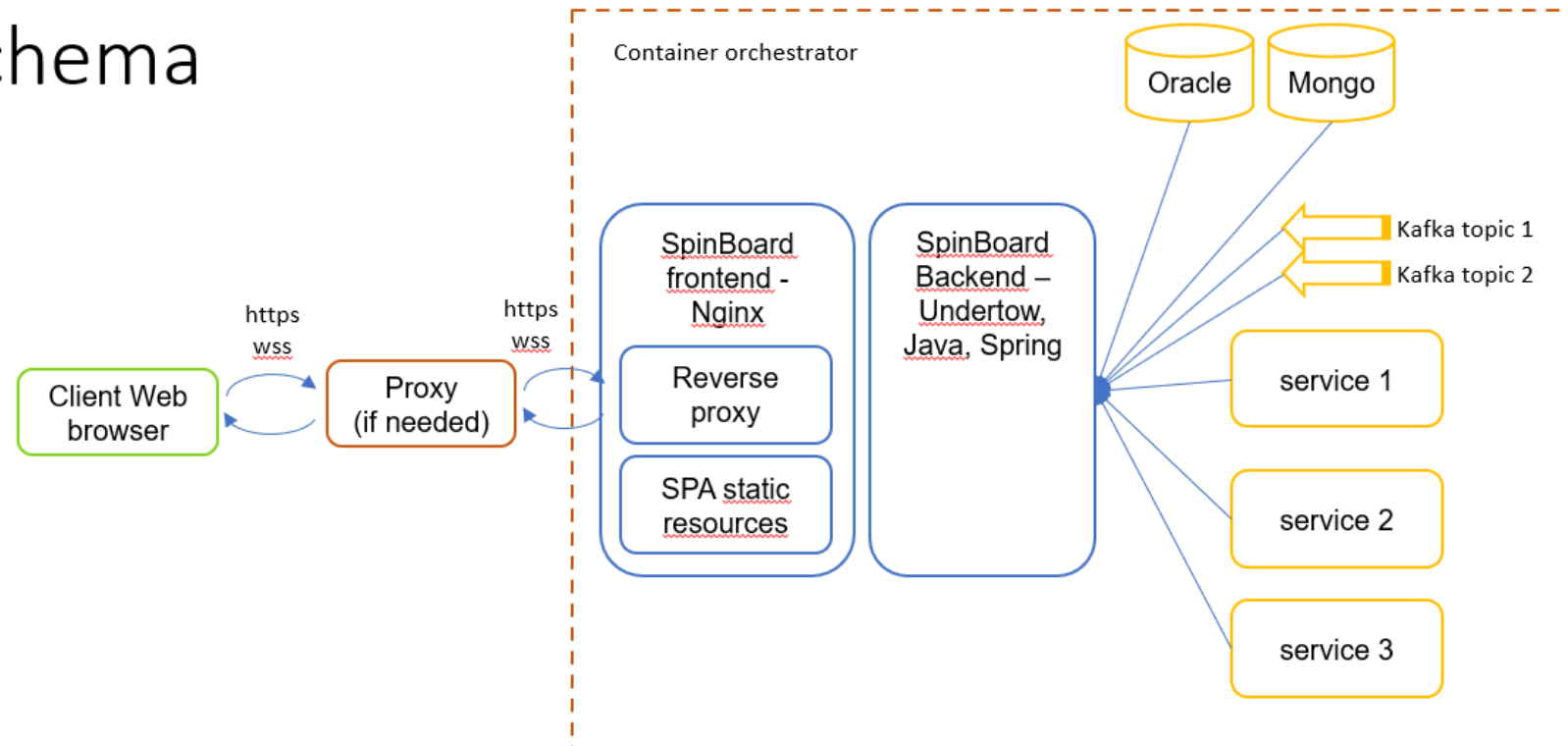
SpinBoard

- SpinBoard provides a set of widgets to display data
- Every single user can arrange the widgets as she/he prefers
 - the system automatically preserves the interface status
 - two users can display the same data in a completely different way, according to their preference.
- SpinBoard is designed to integrate and display streams of data and provides a set of ready to use data integration flows
 - when the integration of a new stream is needed, a little or no java code is needed (soon no code at all will be needed)

SpinBoard – Main Architecture

- SpinBoard is composed by two main components:
 - The backend connects to the datasources and gets and standardizes the data.

Architectural schema

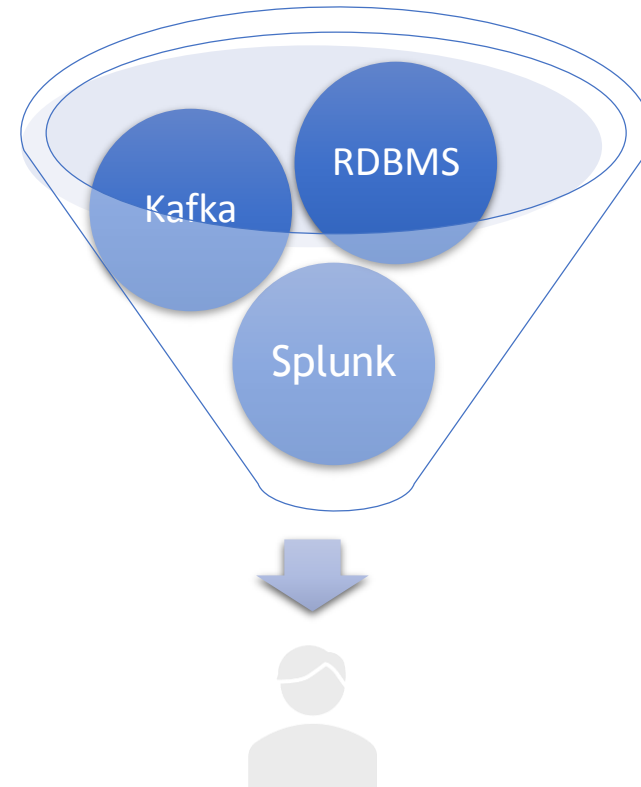


SpinBoard – Data integration

Highly customizable application managing multiple data flows and integrating heterogenous information

Currently supported sources are:

- Relational DBMS (Oracle, Postgres SQL, Microsoft SQL Server)
- Non-Relational DBMS (KDB, MongoDB)
- Event queues (Kafka, IBM MQ)
- JSON-like services (Splunk, REST, gRPC)
- ... The framework can be easily extended to integrate customer-specific legacy sources



Our Product – Key Features

- Cloud native application (dockerized microservices)
- Completely written using latest Java version and based on SpringBoot framework
- Event-Driven and Reactive Architecture
- Low latency data processing
- LDAP Active Directory Authentication
- Using latest available technologies

Our Product – User Interface

Users have their own private workspace: a set of dashboards they can configure arranging different tools according to their specific needs

Currently supported tools:

- Excel like tables
- Charts: pies, candle-stick, histograms ..etc
- Tables with queries and query sharing feature

The screenshot displays the PS-Monitoring application interface, which is a multi-tab workspace. The top navigation bar includes tabs for Desktop 1 through Desktop 6, along with 'Pricing Core' and 'Comm Sales Desk'. The main workspace is divided into several panels:

- Trader blotter:** A table showing trade data with columns for Date, Internalid, Channel id, and a status column. It includes a search filter for 'Channel Id: UCT'.
- Core pricing Blotter:** A table showing pricing data with columns for Venue-CCyPair, Venue, Currency Pair, Bid venue time, and a status column. It includes a search filter for 'Venue: NOT REUT/REP'.
- Risk blotter:** A table showing risk data with columns for Id, Timestamp, User id, Stream id, Risk Type, and Risk Detail. It includes a search filter for 'Id: da7b76c5-e342-4fd3-9cd6-9...'.
- Commodity Blotter:** A table showing commodity data with columns for Request id, Order id, Platform, Symbol, Currency, Exceed time, Trade date, Commodity id, External id, Deal type, Stream type, Client id, and Trader id. It includes a search filter for 'Request id: c4bf47d5-0ce0-421d-b...'.
- Booking & Trading Sql Widget:** A panel showing a SQL query: 'select * from all_tables'. It displays a table with columns: OWNER, TABLE_NAME, TABLESPACE_NAME, CLUSTER_NAME, IOT_NAME, and STATUS. The table contains data for various system tables and views.

User Interface Features

- Customer branding with logo, colours and fonts
- Multiple Desktops
- Fully customizable Desktop area: users can add/remove widgets and design their own dashboards
- All the user settings are automatically saved and restored
- Excel-like tables with multi-sorting, multi-filtering, hierarchical representation, CSV data export
- Support for different charts
- Easy to extend to new and/or customized graphic tools

User Interface demo

- **Custom user layout:** create a new desktop adding a new grid .. just few clicks!

The dashboard is titled "PS-Monitoring" and features a top navigation bar with tabs for Desktop 1 through Desktop 6, along with "Pricing Core" and "Comm Sales Desk". A user profile icon is in the top right corner.

Trader blotter

Date	InternalId	Channel Id	S
2022-06-03 17:25:08	N16JHE0000158	UCT	B
2022-06-03 17:27:41	N16JHE0000159	UCT	B
2022-06-08 15:25:56	TDDVHE0000165	UCT	B
2022-06-08 15:26:34	TDDVHE0000166	UCT	B
2022-06-08 15:27:13	TDDVHE0000167	UCT	B
2022-06-08 15:27:50	TDDVHE0000168	UCT	B
2022-06-06 18:22:34	N16JHE0000370-3	UCT	B
2022-06-08 15:28:28	TDDVHE0000169	UCT	B
2022-06-06 18:22:34	N16JHE0000370-1	UCT	B
2022-06-06 18:22:34	N16JHE0000370-2	UCT	B
2022-06-08 14:15:43	TDDVHE0000101-3	UCT	B

Core pricing Blotter

Venue-CCyPair	Venue	Currency Pair	Bid venue time	Best bid
USDHKD-EBSM_L	EBSM_L	USDHKD	2022-06-10 13:41:03	78
USDHKD-HOSP_L_AH	HOSP_L_AH	USDHKD	2022-06-10 13:43:28	78
EURDKK-HOSP_L	HOSP_L	EURDKK	2022-06-10 13:44:10	74
USDMXN-EBSM_L	EBSM_L	USDMXN	2022-06-10 13:44:25	19
USDHKD-HOSP_L	HOSP_L	USDHKD	2022-06-10 13:44:52	78
USDRUB-EBSM_L	EBSM_L	USDRUB	2022-06-10 13:44:52	57
EURGBP-EBSM_L	EBSM_L	EURGBP	2022-06-10 13:45:05	85
EURHUF-HOSP_L	HOSP_L	EURHUF	2022-06-10 13:45:04	39
USDCNH-EBSM_L	EBSM_L	USDCNH	2022-06-10 13:45:05	67
USDMXN-GOSA_L_AH	GOSA_L_AH	USDMXN	2022-06-10 13:44:56	19
EURHUF-HOSP_L_AH	HOSP_L_AH	EURHUF	2022-06-10 13:45:05	39

Booking & Trading Sql Widget

Query: 1 select * from all_tables

OWNER	TABLE_NAME	TABLESPACE_NAME	CLUSTER_NAME	IOT_NAME	STATUS
SYS	DUAL	SYSTEM	null	null	VALID
SYS	SYSTEM_PRIVILEGE_MAP	SYSTEM	null	null	VALID
SYS	TABLE_PRIVILEGE_MAP	SYSTEM	null	null	VALID
SYS	USER_PRIVILEGE_MAP	SYSTEM	null	null	VALID
SYS	STMT_AUDIT_OPTION_MAP	SYSTEM	null	null	VALID
SYS	FINALHIST\$	null	null	null	VALID
SYS	MODELGTTRAW\$	null	null	null	VALID
SYS	AV_DUAL	SYSTEM	null	null	VALID
SYS	AUDIT_ACTIONS	SYSTEM	null	null	VALID
SYS	ALL_UNIFIED_AUDIT_ACTIONS	SYSTEM	null	null	VALID
SYS	WRHIST_ADV_ASA_RECO...	null	null	null	VALID
SYS	PLAN_TABLE\$	null	null	null	VALID
SYSTEM	OL\$	null	null	null	VALID
SYSTEM	OL\$HINTS	null	null	null	VALID
SYSTEM	OL\$NODES	null	null	null	VALID

Risk blotter

Id	Timestamp	User Id	Stream Id	Risk Type	Risk Detail
121a44f3-300b-44f7-976b-4...	2022-06-03 16:40:51	SYSTEM		STOP	Autohedger health check failed, n
f2662a3a-e9b2-40de-af64-24...	2022-06-08 09:12:46	SYSTEM		STOP	Autohedger health check failed, n
6ced5c48-a827-45c5-99f1-33...	2022-06-03 16:40:41	SYSTEM		STOP	Autohedger health check failed, n

Commodity Blotter

Request id	Order id	Platform	Symbol	Currency	Exceed time	Trade date	Commodity Id	External Id	Deal type	Stream type	Client id	Trader id
db31fe51-4c44-4c26-9...		UCT	EUA FINANCIAL	EUR	2022-06-09 12:50:55	2022-06-09	7887	COMM7887	BULLET	RFS	49704381	49704397

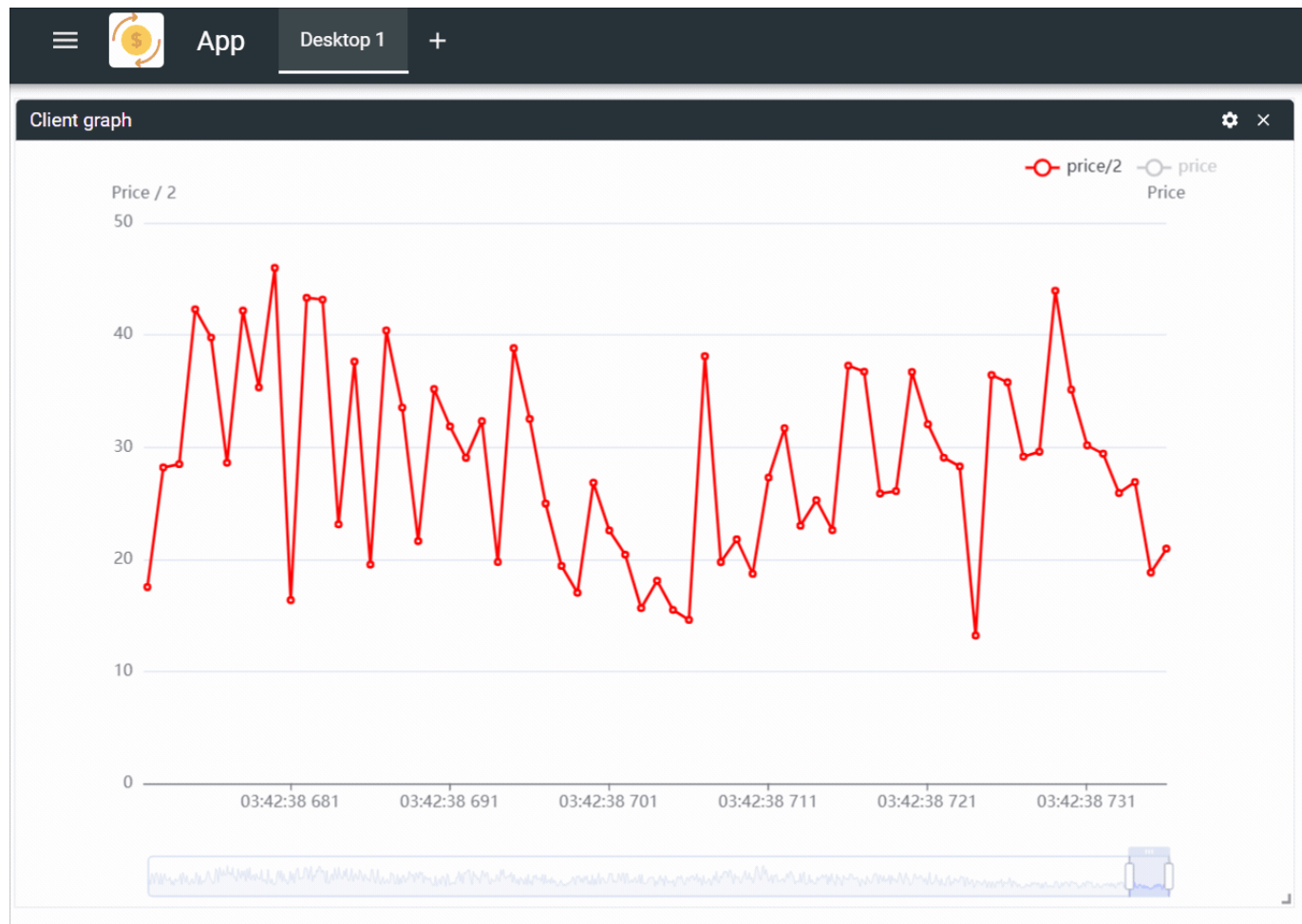
User Interface demo

- **Table features:** multi-sorting, multi-filtering with search highlight, CSV export .. has never been so easy !

Trader blotter																			
Date	↓	InternalId	↓	External Id	↑	C..	↑	Client Traded	↑	Status	↓	Currenc...	↑	Trade type	↑	E..	↑	Splunk Link	↑
2022-06-10 13:30:44		AHJJ4WHE00028-0		SZJ0HE0000087		UCT		SELL 1000.0 EUR		FAILED_TO_BOOK		EURUSD		SPOT		RFS		AHJJ4WHE00028-0	
2022-06-10 13:30:44		AHJJ4WHE00028		SZJ0HE0000087		UCT		SELL 1000.0 EUR		FAILED_TO_BOOK		EURUSD		SPOT		RFS		AHJJ4WHE00028	
2022-06-10 13:30:44		SZJ0HE0000087		f266d87f-82cc-4b...		UCT		BUY 10000.0 EUR		FAILED_TO_BOOK		EURUSD		SPOT		ESP		SZJ0HE0000087	
2022-06-10 12:59:05		AHJJ4WHE00027-0		SZJ0HE0000069		UCT		SELL 1000.0 EUR		FAILED_TO_BOOK		EURUSD		SPOT		RFS		AHJJ4WHE00027-0	
2022-06-10 12:59:05		AHJJ4WHE00027		SZJ0HE0000069		UCT		SELL 1000.0 EUR		FAILED_TO_BOOK		EURUSD		SPOT		RFS		AHJJ4WHE00027	
2022-06-10 12:59:05		SZJ0HE0000069		4bc61323-1d07-4...		UCT		BUY 10000.0 EUR		FAILED_TO_BOOK		EURUSD		SPOT		ESP		SZJ0HE0000069	
2022-06-10 12:50:03		SZJ0HE0000068		23035fc5-b295-4b...		UCT		BUY 10000.0 EUR		FAILED_TO_BOOK		EURUSD		SPOT		ESP		SZJ0HE0000068	
2022-06-10 12:44:34		SZJ0HE0000061		e8cce6ea-d05b-44...		UCT		BUY 10000.0 EUR		FAILED_TO_BOOK		EURUSD		SPOT		ESP		SZJ0HE0000061	
2022-06-10 12:40:18		SZJ0HE0000060		cb9d678d-6b77-4e...		UCT		BUY 10000.0 GBP		FAILED_TO_BOOK		GBPUSD		SPOT		ESP		SZJ0HE0000060	
2022-06-10 12:39:33		SZJ0HE0000059		f0ab45da-23af-40...		UCT		BUY 10000.0 GBP		FAILED_TO_BOOK		GBPUSD		SPOT		ESP		SZJ0HE0000059	
2022-06-10 12:38:56		SZJ0HE0000058		43c1273d-e6d8-4...		UCT		BUY 10000.0 GBP		FAILED_TO_BOOK		GBPUSD		SPOT		ESP		SZJ0HE0000058	
2022-06-10 12:37:41		SZJ0HE0000057		856bdf15-d07c-40...		UCT		BUY 10000.0 GBP		FAILED_TO_BOOK		GBPUSD		SPOT		ESP		SZJ0HE0000057	
2022-06-10 12:29:56		SZJ0HE0000051		27c62fef-6ebe-491...		UCT		BUY 10000.0 EUR		FAILED_TO_BOOK		EURUSD		SPOT		ESP		SZJ0HE0000051	
2022-06-10 12:28:42		SZJ0HE0000049		d28bbe56-e829-4c...		UCT		BUY 10000.0 EUR		FAILED_TO_BOOK		EURUSD		SPOT		ESP		SZJ0HE0000049	
2022-06-10 11:54:43		AHJJ4WHE00026-0		SZJ0HE0000043		UCT		SELL 1000.0 EUR		FAILED_TO_BOOK		EURUSD		SPOT		RFS		AHJJ4WHE00026-0	
2022-06-10 11:54:43		AHJJ4WHE00026		SZJ0HE0000043		UCT		SELL 1000.0 EUR		FAILED_TO_BOOK		EURUSD		SPOT		RFS		AHJJ4WHE00026	
2022-06-10 11:54:43		SZJ0HE0000043		aab34479-ff97-46...		UCT		BUY 10000.0 EUR		FAILED_TO_BOOK		EURUSD		SPOT		ESP		SZJ0HE0000043	
2022-06-10 11:54:18		AHJJ4WHE00025-0		SZJ0HE0000042		UCT		SELL 1000.0 EUR		FAILED_TO_BOOK		EURUSD		SPOT		RFS		AHJJ4WHE00025-0	
2022-06-10 11:54:18		AHJJ4WHE00025		SZJ0HE0000042		UCT		SELL 1000.0 EUR		FAILED_TO_BOOK		EURUSD		SPOT		RFS		AHJJ4WHE00025	
2022-06-10 11:54:18		SZJ0HE0000042		7706e75d-998a-4...		UCT		BUY 10000.0 EUR		FAILED_TO_BOOK		EURUSD		SPOT		ESP		SZJ0HE0000042	
2022-06-10 11:53:20		AHJJ4WHE00024-0		SZJ0HE0000041		UCT		SELL 1000.0 EUR		FAILED_TO_BOOK		EURUSD		SPOT		RFS		AHJJ4WHE00024-0	
2022-06-10 11:53:20		AHJJ4WHE00024		SZJ0HE0000041		UCT		SELL 1000.0 EUR		FAILED_TO_BOOK		EURUSD		SPOT		RFS		AHJJ4WHE00024	

User Interface demo

- **Charts:** multi-line chart with markpoints and zoom .. and much more!



Thank You!

Contact us at:

info@t-spin.com