



Next Generation Solutions for Managing Market Data

JUMP INTO THE FUTURE

Karin Carpentier & Daniel Winkler |  md next | DKF 2024



*Your Go-to-Partner for Building a Future of Market Data Management
Fueled by Efficiency and Innovation.*



Achieve
Compliance



Optimize
Usage



Control
Costs



Mitigate
Risk



Drive
Automation



Exploit Tech
Innovation

4 Key Steps to Advance to the Next Level of Operational Efficiency

We leverage our specialized expertise and approach with latest technology to your advantage

4 | CONDUCT

Deploy control mechanisms, steer dynamically, improve continuously

3 | AUTOMATE

Digitize and seamlessly connect processes across the enterprise



1 | REVIEW

A granular license-to-usage assessment and compliance check across all vendors

2 | OPTIMIZE

Align licenses and inventory with usage and demand, remove duplicates

1 - Refers to Market Data Management

2 - Best-of-Breed / Partner-Eco-System

Selected Use Cases for Automation

Free-up efforts to manage impact, take decisions and adapt to change

INVOICE PROCESSING

Save time, money and reduce manual errors using robotic processing technology

COMPLIANCE CONTROLS

Keep an oversight of compliance adherence with digitized processes, sanitized data

INDEX MANAGEMENT

Control access to index data centrally and manage index notifications

DATA NOTIFICATIONS

Spot impact of relevant DNs and manage stakeholders from one place with DNM

DYNAMIC REPORTING

Flexible and customized linking, and AI-based reporting of internal (mass) data

USER/USAGE MANAGEMENT

Understand usage from entitled accesses in real-time while managing unauthorized logins

DATA NOTIFICATION MANAGER

Managing Vendor Notifications with Ease and Accuracy



Data Notification Manager | Screenshots

+

VIEW ALL

BLOOMBERG FILTER

ACTIV FILTER

ICE FILTER

CLEARNET FILTER

CALENDAR VIEW

Data Notification Manager Calendar View

🏠
DN
BB
PC
AF
ICE
SA
CN

SHOW ALL
SHOW IMPACTFUL

TODAY
<
>

MONTH
DAY
WEEK

By Flag ▼

By Assigned To ▼

By Source (Clearnet) ▼

May 2024

SUN	MON	TUE	WED	THU	FRI	SAT
28	29	30	May 1	2	3	4
PC209691 - Research Managem	ICE14447 - 5009 Brazilian Merc	CNC45329 - Methodology Chang	ICE14587 - Notification: Countr	ICE10727 - IDS Consolidated FH	BB20363-RT - Discontinuation C	PC209037 - TM3/MMD - Require
PC209692 - Refinitiv Contributi	DN209497 - CYPRUS Benchmark	BB20099-SA - Server API (SAPI)	ICE14558 - Example Of A Box S	BB20287-SA - B3 Exchange - Su	CNC45212 - FINRA Customers U	PC209578 - World-Check One -
PC208943 - LSEG Messenger - N	DN209485 - COMEX DNN Conter	ICE14521 - Add Alerts On Watch	ICE14636 - ALL PRODUCTS - No	DN209220 - EJV New CMO Ac	BB20308-RT - Mandatory Softw	CNC45406 - Reminder - 2024 Bu
PC208738 - Messenger Complia	DN209511 - Discontinuation Of	DN209423 - Meat And Livestock	ICE14634 - All Products - Updat	ICE9653 - Consolidated Feed: E	CNC45132 - Changes To NASDA	CNK21571 - B3 Clearinghouse
+ 7 more	+ 89 more	+ 15 more	+ 19 more	+ 9 more	+ 7 more	
5	6	7	8	9	10	11
DN208067 - CBOE Futures Exch	PC209046 - LSEG Real-Time So	BB20096-RT - TPICAP - Entitle	DN208954 - Lot Size Units Chan	CNC45342 - Cboe Canada Techn	BB20291-SA - New Zealand Exc	CNC45394 - Update/Reminder -
DN209465 - New York Mercantil	DN209057 - National Bank Of E	BB19792-PD - Discontinuation C	DN209577 - Discontinuation Of		BB20319-REF - Change In ID_BB	CNC45241 - Final Phase Of CM
	DN209369 - NSE International E	BB19985-PD - Discontinuation C			CNC45353 - Reminder/Update -	PC209248 - Workspace / Eikon
	DN209416 - Solactive Indices A	BB19987-PD - Discontinuation C			BB20291-RT - New Zealand Exc	CNK21589 - ASX Net - ASX Inte
	+ 35 more	+ 5 more			+ 4 more	
12	13	14	15	16	17	18
ICE14545 - 5030 ICE Markets: N	DN207554 - Abu Dhabi Securitie	CNK21535 - Multicast Protocols	CNC44246 - Reminder - Cboe Ja		BB20358-SA - Discontinuation C	AF2677 - NSE Equities (Nationa
DN209418 - Chicago Board Of T	DN209201 - Euronext Index RIC		BB20359-REF - Change In Eligib		BB20358-RT - Discontinuation C	
CNC45385 - Change To Strike P	ICE14498 - 5019 European Ener		CNC45351 - New Service Provid			
	ICE14583 - 5036 Euronext Cash					
	+ 42 more					

DNM Launch Pad

The Dashboard – Managing and steering Data Notifications tailored to your organization

DN #	Ven Status	Flags	Title	Assigned To	Status	Issue Date
Effective Date Range						
BB BB21254-TE		\$	Weekly Terminal Exchanges Notice for 02/28/24	Unassigned	New	2024-02-29
PC PC208553		R	TM3/MMD website and feeds modernization	Unassigned	New	2023-12-15
DN DN208591	CANCELLED	S R X	Shanghai Stock Exchange Service Level 2 - Launch Tick-by-Tick Quotation	Unassigned	No Users Impacted	2023-12-11
DN DN209506	TENTATIVE	S U R X T	NYSE ArcaBook - Addition of new Security Status	Unassigned	New	2024-04-02
DN DN209522	TENTATIVE	S U R X T	NYSE OpenBook - Addition of new Security Status	Unassigned	New	2024-04-03
DN DN209360	TENTATIVE	D S U T	Discontinuation of MVC Data for ETC and ETN on Datastream	Unassigned	New	2024-03-13
PC PC204518		R	Refinitiv Data Feed Direct - Shanghai Stock Exchange NGTS FAST SL2 - release 2.1.0	Unassigned	New	2022-08-03
DN DN201778	TENTATIVE	P S U R T	Ho Chi Minh Stock Exchange Exchange Feed Migration to Market Data Distribution System (MDDS).	Unassigned	New	2021-09-28
DN DN200326	TENTATIVE	P D S R T	Hanoi Stock Exchange (Equities Market) Exchange Feed Migration to Market Data Distribution System (MDDS)	Unassigned	No Users Impacted	2021-09-10
DN DN208486	TENTATIVE	P D U S R T	VIETNAM: Discontinuation of HOSE Page RICs	Unassigned	New	2023-11-29
DN DN201833	TENTATIVE	U S R T	Hanoi Stock Exchange (Derivatives Market) Exchange Feed Migration to Market Data Distribution System (MDDS)	Unassigned	New	2021-09-10
DN DN208485	TENTATIVE	U S R X T	New Zealand's Exchange (NZX) - Introduce Midpoint Trades for Main Board (NZSX) Market	Unassigned	New	2023-11-29
DN DN207577	TENTATIVE	P S R T	Thailand Futures Exchange (TFEX): Launch of 2 New Currency Futures EUR/THB and JPY/THB	Unassigned	No Users Impacted	2023-09-06
DN DN207743		X	Swedish Detailed Industry Capacity Utilization Discontinued in Economics	Charles Ledda	Assigned	2023-09-11
DN DN207344		U X	Geograin Subchains Display Template Change and Addition of New Description FID 3652	Charles Ledda	Assigned	2023-08-03
DN DN209394		X	US Lubik-Matthes Natural Rate of Interest Added to Datastream	Unassigned	No Users Impacted	2024-03-15
DN DN209478		X	Greek Core Inflation Index Added to Datastream	Unassigned	No Users Impacted	2024-03-25

Key Benefits of the Data Notification Manager

Managing vendor notifications with ease, accuracy and tailored to your organization

PROCESS
AUTOMATION

FULL
ACCURACY

ECONOMIES
ACHIEVED



IMPACT SPOTTED

Easily identifies which of your instruments, applications, users are impacted by a vendor notification



OWN WORKFLOW DEPLOYED

DNM is tailored to notify the relevant application owner or business analyst automatically



MANUAL EFFORTS SAVED

Thanks to a system driven, fully managed process of DNs, resources, time and efforts are freed up to manage impact and take decisions



EASE AT INVESTIGATING ISSUES

Search on an instrument level or by keyword to speed up time to find issues and assess their impact



CONSTANT OVERVIEW

Categories such as content removal or price changes are automatically assigned to DNs providing overview



INVOICE PROCESSING AUTOMATION

Accelerate Your Invoice Processing



What IPA Is and Can Deliver for You

Increased operational efficiency by fully automated processing of vendor invoices



Software bot that plugs into existing business systems



Set of rules to solve specific invoice processing issues



An easy-to-use tool to automate manual, repetitive tasks



Invoices are digitized, consolidated and verified with existing contracts and accounting data



Enhances business workflows by establishing fully automated end-to-end processes



Foundation to further push your digital transformation of workflows and processes

How IPA Works

Establishing end-to-end digitized invoice processing

DIGITIZE INVOICES



AI Based Processing → WHSS Invoice DB

CONNECT




DACS Contract Mgmt HR
Bloomberg EMRS & SIDS FITS/MDM Inventory

BUSINESS INTELLIGENCE



Price Changes	Unused Svcs
Qty Changes	Calculation Errors
Exp Contracts	License Issues
Cancelations	Date Checks
Taxes	Account Changes

APPROVALS



Ticketing
Email Approvals

PAYMENTS



Interface with AP systems like SAP

ALLOCATIONS



Exchange Fees
Site Licenses

REPORTING

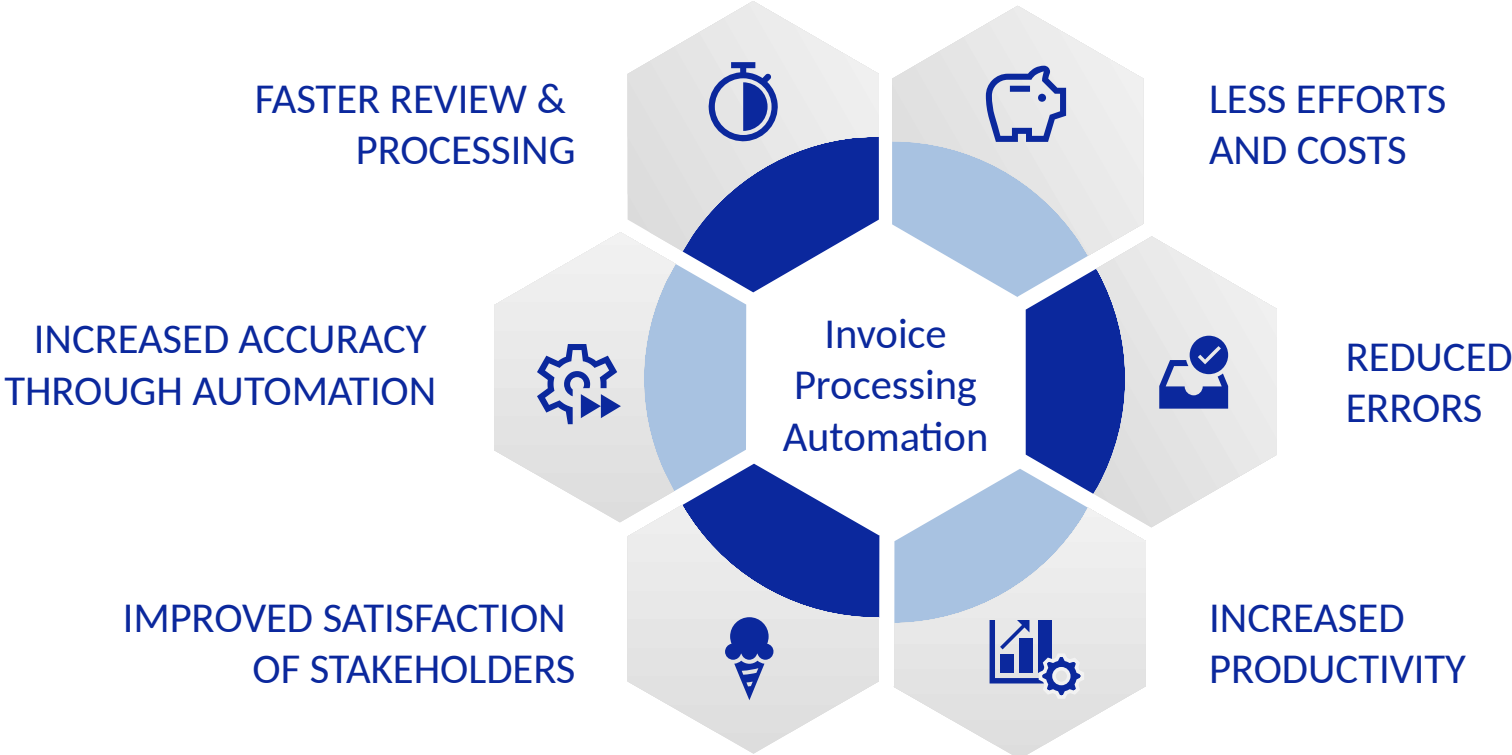


Exchange Reporting
3rd Party Audits



Key Benefits of Invoice Processing Automation (IPA)

IPA is quick to implement without big changes to internal systems or controls



WEB ACCESS CONTROL MANAGER

Control Individual Access
to Web-Delivered Market Data & Legal Services

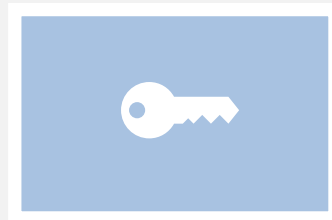


Web Access Control Manager (WACM)

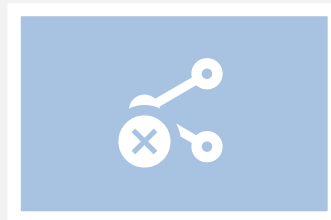
Full control of accesses to market data and licensed services through a single sign-on interface



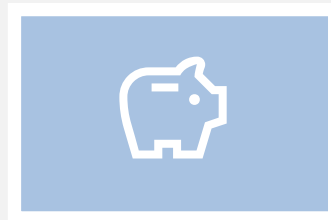
KEY BENEFITS OF WACM



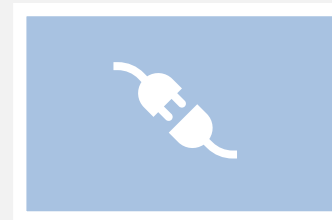
Controlled access



No more sharing credentials



Identify real-time cost savings



No browser plug-in for secure access

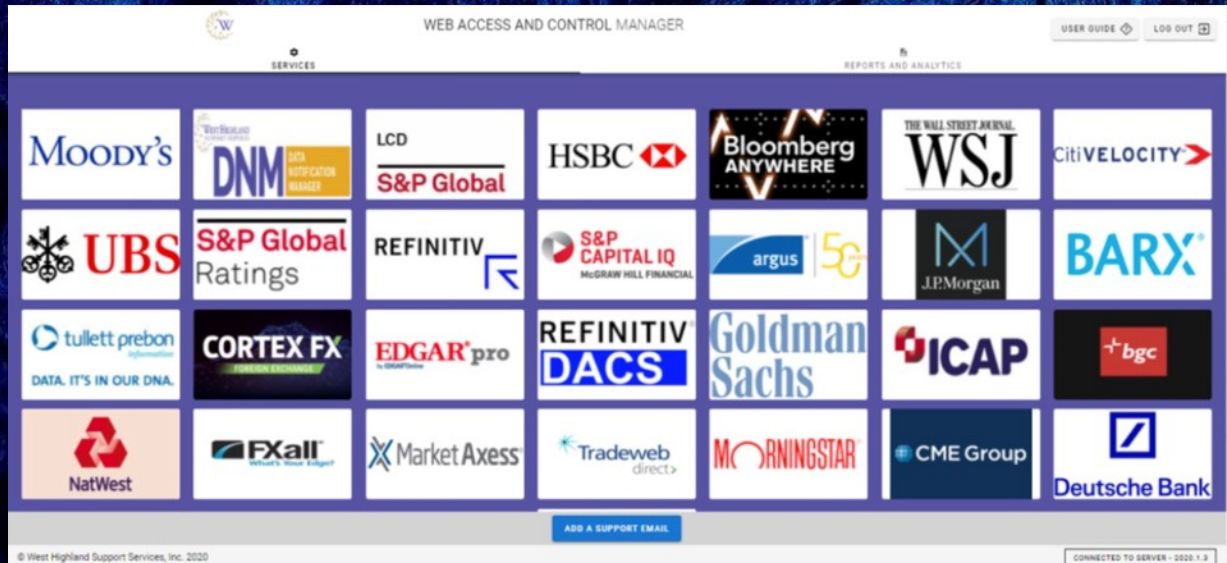


Usage visibility

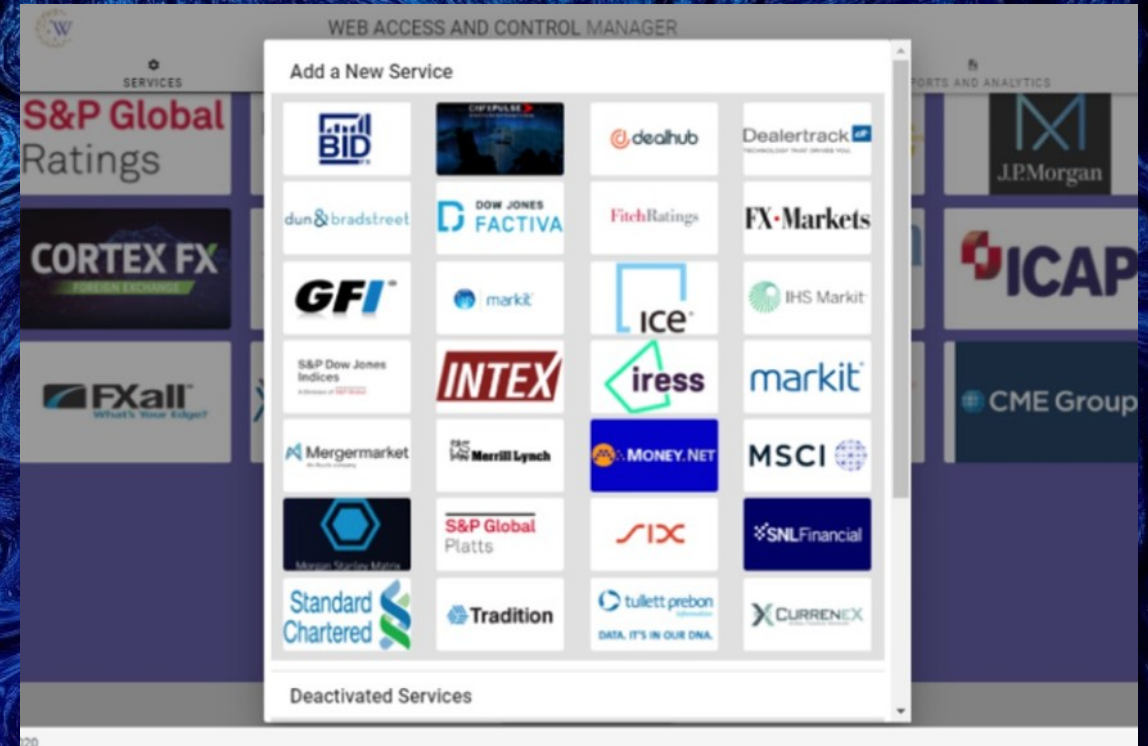


Web Access Control Manager | Screenshots

Sample of WACM Services Configured



WACM Service Management Console





YOUR GO-TO PARTNER FOR CREATING THE FUTURE OF MARKET DATA MANAGEMENT



Compliance
Awareness



Usage
Optimized



Costs
Controlled



Risks
Managed



Automation
Enabled



Efficiency
Gained



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THANK YOU

COMPLIANCE CHECK

A Detailed Review of Your Market Data Services

DATA WORKFLOWS | INSTRUMENT LEVELS | ENTITLEMENTS



Our Unique Market Data Compliance Check

Three steps to become aware of any non-conformity issue regarding your data licenses



COLLECT INFORMATION

- ❖ Vendor/ exchange/ 3rd party contracts, invoices
- ❖ Cost center allocations
- ❖ Data flow and usage



IDENTIFY ISSUES

- ❖ Licensed/ unlicensed usage and entities
- ❖ Actual reporting and gaps
- ❖ Missing data flow diagrams and documentation



ASSESS IMPACT

- ❖ Assigning risk scores to each use case
- ❖ Guidance for updating existing inventory software



REPORT RESULTS

- ❖ Recommendations and prioritized action points
- ❖ Data flow diagram
- ❖ Reference to areas for optimization and cost saving

DATA WORKFLOWS | INSTRUMENT LEVELS | ENTITLEMENTS



Optimization of Index License Management

Reach compliance awareness and get full transparency for managing your index data licenses



INDEX
SERVICES & PACKAGES



INDEX
DATA DELIVERY



INDEX
DATA USAGE RIGHTS

1 | ADVISORY

Inventory Check

Which indices are available per index provider under the relevant Index License Agreement?

Delivery Check

How is the index data sourced and disseminated to business?
Who is using it?

Compliance Check

How is index data used and is this in line with the Index License Agreement?

2 | SOLUTIONS

Intelligent Data Mapping Platform (IDP)

Map index constituent data by vendors and 3rd parties

Web Access Control Manager (WACM)

Control & manage access to index data centrally

Data Notification Manager (DNM)

Manage index notifications timely & accurately



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