



ULTUMUS

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PCF CALCULATION AND DISTRIBUTION SERVICES

For ETF Issuers and Investor Service Groups

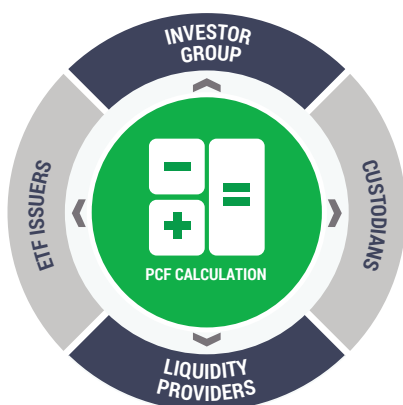
ULTUMUS is the world's leading Portfolio Composition File (PCF) calculation agent. We are widely used in the ETF industry and have major clients in every financial capital.

CAPABILITIES

- **We Provide** extensive expertise in Index and ETF data as a benchmark provider.
- **We Ensure** alignment with provider models through automated processes.
- **We Analyse** forward-looking dividend and corporate action impacts on basket components.
- **We Offer** real-time monitoring and reporting of price deviations (iNAV Engagement).
- **We Validate** with user-configured tolerance checks.
- **We Manage** a defined PCF reprinting process with triggers, timestamps, and versioning.
- **We Monitor** processes step-by-step with real-time updates and notifications.
- **We Provide** price modelling for mapping illiquid to liquid cross-listings (local vs foreign).
- **We Deliver** enhanced data output with detailed fund economic characteristics.
- **We Control** PCF distribution through client-specific APIs.
- **We Offer** transparent client service for liquidity providers.
- **We Create** comprehensive documentation leading to formal service level agreements (SLA).
- **We Support** new products, structures, and regulatory challenges with flexibility.

BENEFITS

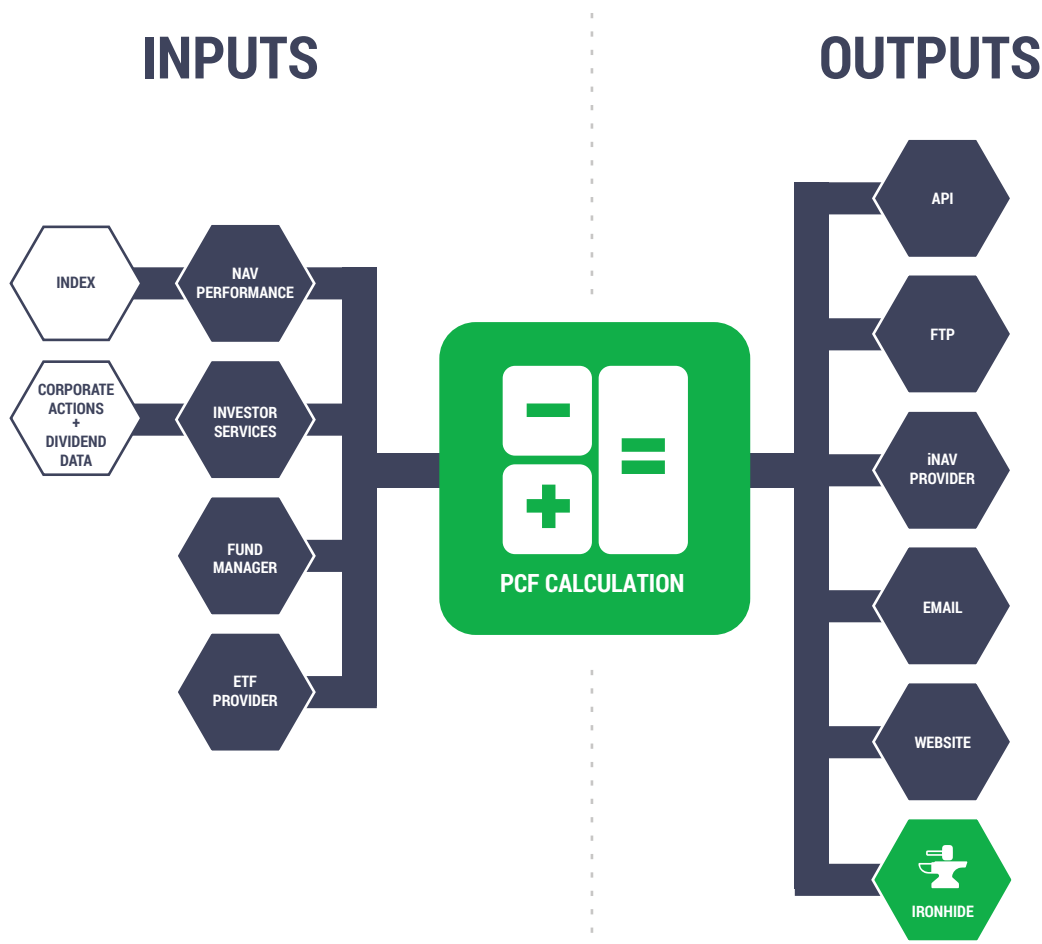
- ✓ Unmatched index processing expertise and global PCF handling experience.
- ✓ Elimination of manual errors from legacy spreadsheet processes.
- ✓ Accurate global basket pricing through application of corporate events in closed markets.
- ✓ Real-time iNAV data acknowledgement and pre-open price validation.
- ✓ Immediate issue detection from data inputs during processing.
- ✓ Near real-time market updates reflected in PCF, improving accuracy across products.
- ✓ Full transparency in daily PCF processing via multiple channels.
- ✓ Accurate global basket pricing through "illiquid to liquid" instrument mapping.
- ✓ Empowered PCF consumers with recalculated NAV for better liquidity and reduced spreads.
- ✓ Addressed index licensing constraints and control over PCF publication.
- ✓ Reduced noise from liquidity providers by centralising PCF communication.
- ✓ Structured, controlled processes supported by a robust platform.
- ✓ Flexibility in delivering PCFs tailored to specific fund structures.



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ETF PROCESS FLOW



The ETF market is evolving to meet investor demands for greater accuracy and transparency. Leading issuers are now combining delivery and pricing basket information into a single report, offering a clearer view of the ETF's composition and projected income. This comprehensive data allows for daily NAV calculations with unprecedented precision (within 0.001 basis points). ULTUMUS, with its expertise in both synthetic and physical PCF calculation, is a key player in enabling this new level of precision and transparency in the ETF market.

CREDENTIALIALS

» Index Data Expertise

The ULTUMUS team has deep knowledge of index processing for synthetic products and the flexibility to handle complex physical structures.

» Established Platform

Our automated quality controls, combined with user monitoring and support from experienced ETF analysts, provide unmatched 24/5 support to ensure optimal market performance.

» Innovation

We are dedicated to continuously innovating cloud-based technology to support PCF calculation.

» Trusted Provider

With over 20 years of experience, we are a global data provider for leading investment banks, asset managers, and exchanges.

ULTUMUS: WE ARE THE BENCHMARK

Since its establishment in 2016, ULTUMUS has significantly broadened its global services, encompassing index, ETF, and dividend forecast data. Built on AWS, ULTUMUS's technology stack delivers exceptional support and innovation in ETF and Index Data Management.

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