

ALTO* Asset Overview for delegated assets

Amundi Services provides to external asset managers and institutional investors a solution to capture assets delegated to third party assets managers and enables the client, for all its assets, to execute compliance, risk controls and other analytics.

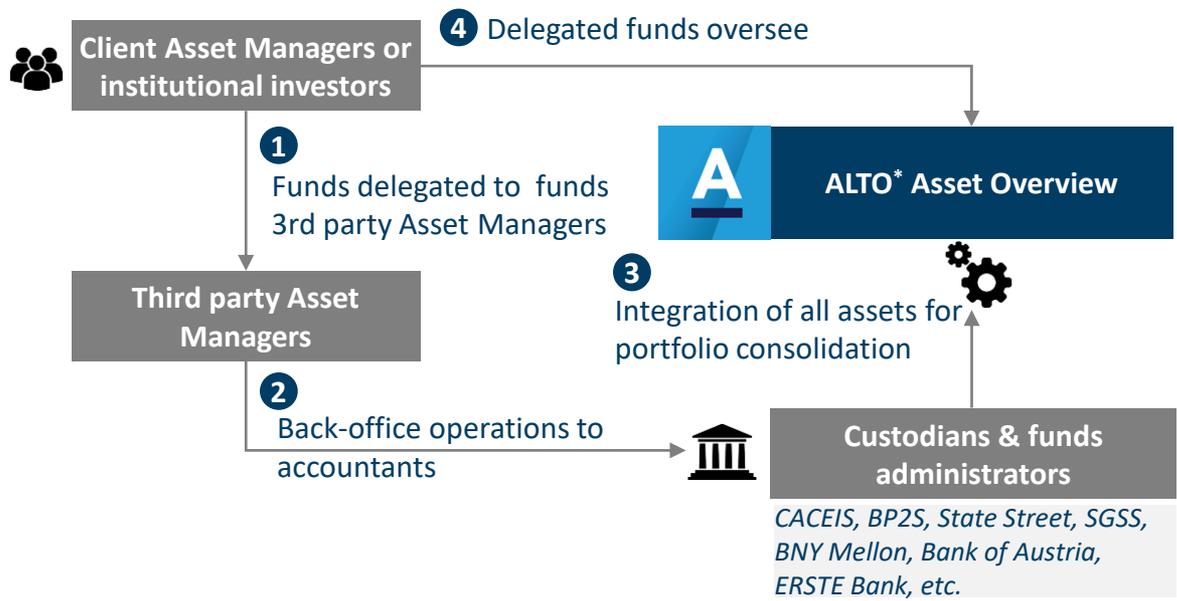
The solution offered by Amundi Services covers the daily integration of asset holdings for a wide range of asset classes including the most complex OTC instruments as well as a distinctive data governance process for the integration, enrichment and quality check of a variety of datasets. The solution allows the client to have a 360° view of its assets in a single platform and to oversee the risk, performance and compliance analytics.

Asset Overview functionalities: transparency and look through solutions

<p>Clients use case</p>	<p>1 An Asset Manager manages direct fund while delegating mandates to external Asset Managers.</p>	<p>2 An Institutional Investor delegates the management of funds and mandates to third party Asset Managers.</p>	<p>3 An institutional Investor outsources the management of all its assets with a lead Asset Manager and sub-delegation to other third parties.</p>												
<p>Client requirement</p>	<p>Consolidate with transparency all assets delegated to external third parties in a single platform.</p>														
<p>Amundi Services solution</p>	<p>Portfolio Management System through ALTO*</p>	<p>Fund Hosting</p>	<p>Outsourced CIO</p>												
<p>Asset Overview services</p>	<ul style="list-style-type: none"> • Holding integration • Data control • Risk indicators calculation : ex-ante, ex-post, performances... • Compliance control post-trade • Portfolios consolidation, visualization, data delivery and reporting 		<table border="1"> <thead> <tr> <th>Service</th> <th>Software</th> </tr> </thead> <tbody> <tr> <td>✓</td> <td></td> </tr> <tr> <td>✓</td> <td></td> </tr> <tr> <td>✓</td> <td></td> </tr> <tr> <td>✓</td> <td>✓</td> </tr> <tr> <td></td> <td>✓</td> </tr> </tbody> </table>	Service	Software	✓		✓		✓		✓	✓		✓
Service	Software														
✓															
✓															
✓															
✓	✓														
	✓														
<p>Amundi Services added value</p>	<ul style="list-style-type: none"> • Full asset classes coverage: securities, derivatives, index, forex, loans, securities financing transactions and real asset. • Data governance and processing for each business services requirements with high data quality standards. • Powerful integration tool able to handle large data volumes thanks to connections with 60 fund administrators including 20 fully automated. • Automated process to create and enrich listed derivative instruments with low matching error for listed instrument. 														

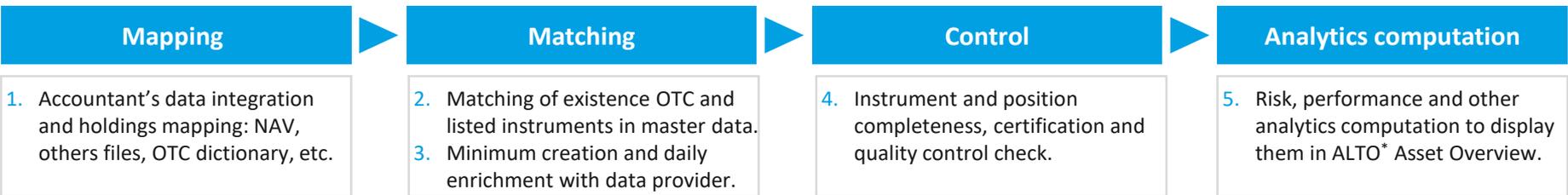
*Amundi Leading Technologies & Operations

ALTO* Asset Overview consolidates all assets from fund administrators



- Main analytics available in ALTO***
- ABOR position keeping
 - Risk ex-ante: VaR, VOL & TE
 - Risk ex-post: VOL, TE & IR (+ option: MaxDrawdown, Recovery, Sharpe, Treynor, Sortino, Alpha, Beta Bull/Bear, Correlation, etc.)
 - Performance measurement: gross and net with breakdown (geographies, sectors, etc.)
 - Performance contribution: relative and absolute metrics including returns and P&L
 - Compliance: clients and regulatory constraints checks, breaches and limits management

Focus on data integration process

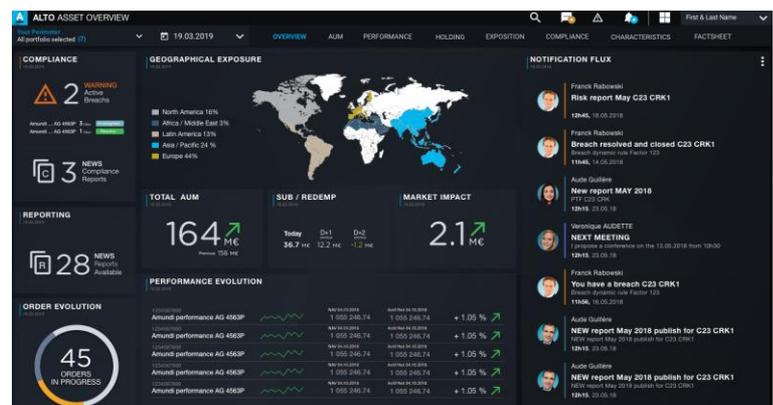
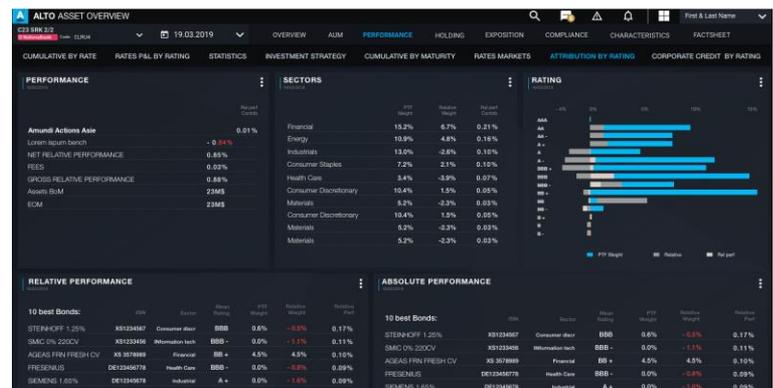


ALTO* Portfolio Management System

ALTO* is Amundi's Portfolio Management System (PMS) covering the entire Asset Management value chain and providing a 360° portfolio view for all asset classes. Amundi Services offers outsourced solutions for technology & operations and makes the ALTO* platform available to external asset managers and institutional investors.

ALTO* users can, for example, analyse and manage portfolios, simulate the impact of orders, make investment decisions, perform middle office operations, measure performance, monitor exposures and risks.

ALTO* Asset overview is a dedicated web module to visualize and monitor assets under management.



*Amundi Leading Technologies & Operations

This document is intended exclusively for professional clients and/or eligible counterparties, within the meaning of European Directive No. 2004/39 of 21 April 2004 on the markets in financial instruments ("MiFID"). This document is not intended for citizens or residents of the United States of America or to any "U.S. Person", as this term is defined in SEC Regulation S under the U.S. Securities Act of 1933. This document is provided for information purposes only and for the exclusive use of the person who receives it. Under no circumstances does it constitute a purchase offer, investment advice or a solicitation to sell, nor does it form the basis of a contract or commitment of any kind whatsoever. Amundi Asset Management accepts no liability is subject to change without notice. It is deemed whatsoever, whether direct or indirect, that may arise from the use of information contained in this document. Amundi may in no way be held liable for any decision or investment made on the basis of information contained in this document. This information may not be copied, reproduced, modified, translated or distributed without the prior written approval of Amundi AM. This document has not been reviewed by any supervisory authority. The information provided in this document accurate as at 30 September 2019.