

# ALTO\* Asset Overview *for delegated assets*

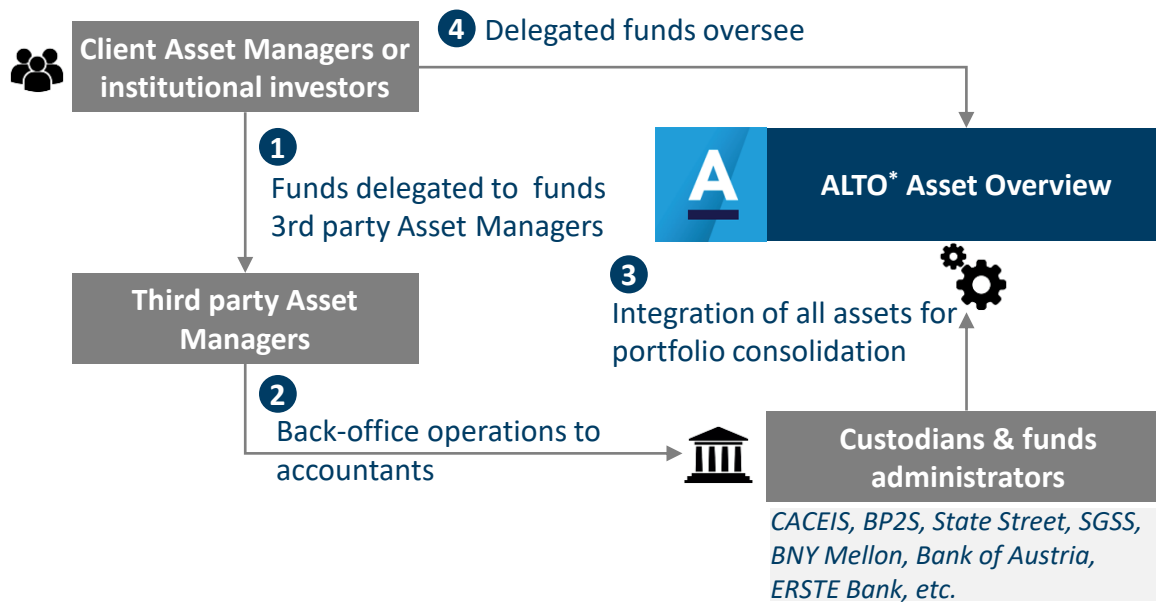
Amundi Services provides to external asset managers and institutional investors a solution to capture assets delegated to third party assets managers and enables the client, for all its assets, to execute compliance, risk controls and other analytics.

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

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Clients use case	An Asset Manager manages direct fund while delegating mandates to external Asset Managers.	An Institutional Investor delegates the management of funds and mandates to third party Asset Managers.	An institutional Investor outsources the management of all its assets with a lead Asset Manager and sub-delegation to other third parties.																		
Client requirement	Consolidate with transparency all assets delegated to external third parties in a single platform.																				
Amundi Services solution	Portfolio Management System through ALTO*	Fund Hosting	Outsourced CIO																		
Asset Overview services	<table><tr><td></td><td>Service</td><td>Software</td></tr><tr><td>• Holding integration</td><td>✓</td><td></td></tr><tr><td>• Data control</td><td>✓</td><td></td></tr><tr><td>• Risk indicators calculation : ex-ante, ex-post, performances...</td><td>✓</td><td></td></tr><tr><td>• Compliance control post-trade</td><td>✓</td><td>✓</td></tr><tr><td>• Portfolios consolidation, visualization, data delivery and reporting</td><td></td><td>✓</td></tr></table>				Service	Software	• Holding integration	✓		• Data control	✓		• Risk indicators calculation : ex-ante, ex-post, performances...	✓		• Compliance control post-trade	✓	✓	• Portfolios consolidation, visualization, data delivery and reporting		✓
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Amundi Services added value	<table><tr><td>• Full asset classes coverage: securities, derivatives, index, forex, loans, securities financing transactions and real asset.</td><td>• Powerful integration tool able to handle large data volumes thanks to connections with 60 fund administrators including 20 fully automated.</td></tr><tr><td>• Data governance and processing for each business services requirements with high data quality standards.</td><td>• Automated process to create and enrich listed derivative instruments with low matching error for listed instrument.</td></tr></table>			• Full asset classes coverage: securities, derivatives, index, forex, loans, securities financing transactions and real asset.	• Powerful integration tool able to handle large data volumes thanks to connections with 60 fund administrators including 20 fully automated.	• Data governance and processing for each business services requirements with high data quality standards.	• Automated process to create and enrich listed derivative instruments with low matching error for listed instrument.														
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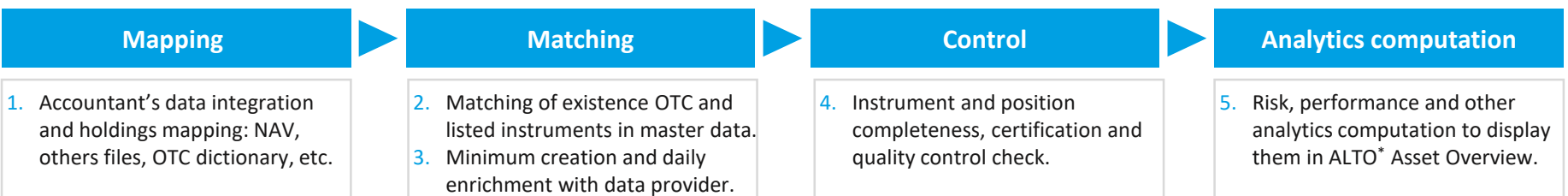
**ALTO\* Asset Overview consolidates all assets from fund administrators**



**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**

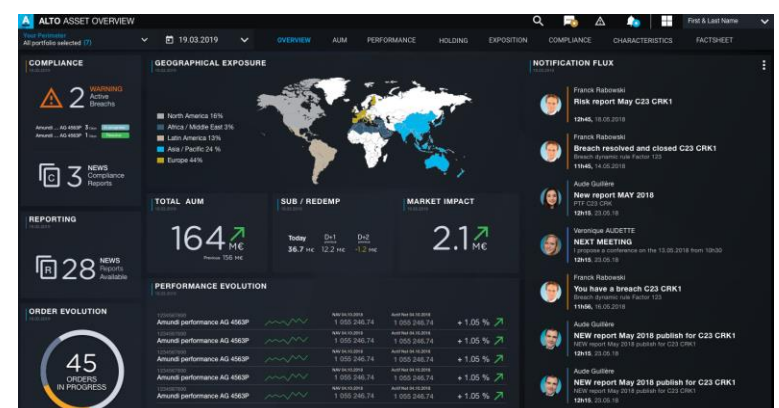
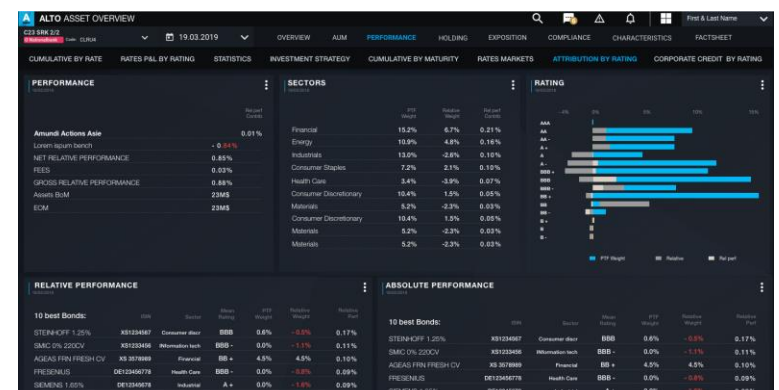


**ALTO\* Portfolio Management System**

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