

## Disclosure of Service Descriptions



### **Disclosure of Ancillary and Other Services**

S&P Global Ratings business operations in Hong Kong are currently conducted through S&P Global Ratings Hong Kong Limited (“S&P Hong Kong”).

In accordance with the provisions of the Securities and Futures Commission Code of Conduct for Persons Providing Credit Rating Services, paragraph 33, this document lists the “Ancillary Services” and “Other Services” offered by S&P Hong Kong. Also listed are the “Credit Rating Activities” offered by S&P Hong Kong.

“Ancillary Service” means a product or service that S&P Global Ratings provides or sells that is not a Credit Rating or Credit Rating Activity and is either a market forecast, an estimate of economic trends, a pricing analysis, other general data analysis, or distribution services related to a Credit Rating, a market forecast, an estimate of economic trends, a pricing analysis, or general data analysis.

“Other Service” means a product or service that S&P Global Ratings provides or sells that is neither an Ancillary Service nor part of its Credit Rating Activities.

“Credit Rating Activities” means an activity engaged in by S&P Global Ratings that leads to or directly supports the issuance or surveillance of a Credit Rating including: the evaluation, approval, issuance, or review of Credit Ratings; analysis of data and information related to Credit Ratings; a Credit Rating Action or Rating Decision; and the development or approval of Criteria, including the development or approval of qualitative and quantitative models, or of Guidance Documents.

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Type of Service	Service Name	Description
Ancillary Services	None	N/A
Other Services	Cash Flow Evaluator	<p>Cash Flow Evaluator is a cash flow model designed to analyse whether the rated security of a structured deal may receive timely or ultimate interest and principal payments at different liability ratings levels, after the application of collateral defaults and other stresses incurred by the collateral pool. The model is used to assign initial ratings for structured transactions, as well as for surveillance and for generating scenario analysis. Cash Flow Evaluator applies various combinations of stresses to the collateral portfolio of a structured transaction and examines whether the rated securities receive timely or ultimate interest and principal payments in those scenarios. The stresses applied may include collateral default levels and timing, collateral recovery levels and timing, interest rate movements, and prepayment stresses when applicable. Cash Flow Evaluator creates scenarios composed of different combinations of these stress factors (e.g. rising interest rate environment combined with low prepayments and back-ended defaults), and determines the maximum default rate that can be applied to the collateral in each scenario such that the rated liabilities always receive timely or ultimate interest and principal payments. This maximum default rate is referred to as the Break-even Default Rate (BDR). A full description of the model is available on the S&amp;P Global Ratings website.</p>
Other Services	CDO Evaluator: 7.2	<p>CDO Evaluator 7.2 is a model that S&amp;P Global Ratings uses as a tool to assess the credit risk of a portfolio of rated (or credit assessed) corporate assets, structured finance assets, sovereign assets, municipal assets, project finance assets, international public finance assets, and other assets with ratings or credit assessments, and combinations of such assets. In addition, we use CDO Evaluator 7.2 as a tool to assess the credit risk of commodity collateralized obligations (CCOs) and foreign exchange collateralized debt obligations (FX CDOs). CDO Evaluator is also used for restructurings of asset-backed securities (ABS), commercial mortgage-backed securities (CMBS), residential-mortgage-backed securities (RMBS), and other structured finance securities.</p>
Other Services	Conferences and Training	<p>Conferences are provided covering topical developments in credit markets, credit ratings, and credit analysis in key industry and government sectors. Training sessions are occasionally provided covering S&amp;P Global Ratings analytical methodology.</p>
Other Services	Covered Bond Monitor	<p>Covered Bond Monitor quantitatively assesses whether the reported cash flows of a particular covered bond pool are potentially eligible to support the achievable collateral-based uplift, according to our criteria. It performs these calculations based on the user's input of relevant data into an Excel template, which is specifically designed by S&amp;P Global Ratings to be read by Covered Bond Monitor. The model uses the provided data and applies various combinations of S&amp;P Global Ratings stress scenarios including stresses for cash flow as well as market risk to calculate the level of overcollateralization commensurate to support timely and ultimate payment of interest and principal. A full description of the model can be found on S&amp;P Global Ratings' web site.</p>

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Type of Service	Service Name	Description
Other Services	Credit Assessment	<p>A credit assessment is an indicator of S&amp;P Global Ratings' opinion of creditworthiness reflecting our view of the general credit strengths and weaknesses of an issuer, obligor, a proposed financing structure, or elements of such structures. It may also pertain to limited credit matters or carve out certain elements of a credit that would ordinarily be taken into account in a credit rating. A credit assessment usually represents a point-in-time evaluation, and S&amp;P Global Ratings generally does not maintain ongoing surveillance of credit assessments. A credit assessment is generally confidential. Credit assessments are expressed in descriptive terms or using S&amp;P Global Ratings' traditional credit rating symbols, but in lowercase (e.g., 'bbb'), either in a broad category or with the addition of a plus (+) or minus (-) sign to indicate relative standing within the category.</p>
Other Services	Credit Estimate	<p>A credit estimate is a confidential indication of a likely credit rating on an unrated entity or instrument. Credit estimates are primarily performed for the purpose of including the debt of unrated issuers in a collateralized debt obligation (CDO) or another structured finance obligation that is rated by S&amp;P Global Ratings. Credit estimates are formulated using an abbreviated analysis that draws on the analytical experience of credit estimate analysts and do not include all of the aspects of a credit rating. For these reasons, among others, a credit estimate is not a substitute for a credit rating and does not constitute a credit rating. Credit estimates generally do not involve direct contact with the issuer/obligor's management or in-depth insight into operating, financial, or strategic issues that such contact allows. They are typically based on information provided from the requesting party, together with information from third-party sources that we consider reliable. In all circumstances, credit estimates must satisfy our established credit estimate information guidelines. S&amp;P Global Ratings does not maintain ongoing surveillance of credit estimates, but periodic updates may be provided. Credit estimates are expressed using S&amp;P Global Ratings' traditional credit rating symbols, but in lowercase (e.g., 'bbb'). A credit estimate may be provided as private credit analysis, which is a credit estimate accompanied by a written report on the rationale for the credit estimate.</p>
Other Services	Enterprise Risk Management Evaluation	<p>S&amp;P Global Ratings' Enterprise Risk Management (ERM) Evaluation provides a prospective view of an insurer's potential risk profile and change in capital position related to movements in risk drivers. The evaluation of insurance companies' ERM assesses whether an insurer executes risk management practices across the enterprise in a systematic and consistent manner, and the extent to which it effectively limits key risks within its appetite to optimally achieve its business goals and objectives. The ERM Evaluation may include descriptive comparisons of an insurer's ERM practices to a broad set of peers.</p>

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Other Services	ESG Evaluation	The Product is not a credit rating, and is not indicative of, nor related to, any credit rating or future credit rating of an entity. The Product provides a cross-sector, relative analysis of an entity's capacity to operate successfully in the future and is grounded in how ESG factors could affect stakeholders and potentially lead to a material direct or indirect financial impact on the entity. ESG factors typically assess the impact of the entity on the natural and social environment and the quality of its governance. The Product is not a research report and is not intended as such.
Other Services	Extended Financial Management Assessment	Extended Financial Management Assessment (FMA) is an in-depth interactive assessment of financial management practices, tools, and policies of a local or regional government (LRG), provided to that LRG, or confidentially to a third party that requests it. S&P Global Ratings typically conducts an assessment of an LRG's financial management as part of its credit rating process, and this component of the analysis is covered in our public finance criteria and routinely covered as a section in our credit rating reports. Extended FMA service provides a largely similar analysis on financial management of an LRG but on a standalone and more in-depth basis either to interested LRGs or to third parties. Methodology for assigning extended FMAs is published on the S&P Global Ratings website (since July-1-2010).
Other Services	Fund Credit Quality Ratings	An S&P Global Ratings fund credit quality rating, also known as a "bond fund rating," is a forward-looking opinion about the overall credit quality of a fixed-income investment fund. Fund credit quality ratings, identified by the 'f' suffix, are assigned to fixed-income funds, actively or passively managed, typically exhibiting variable net asset values. They reflect the credit risks of the fund's portfolio investments, the level of the fund's counterparty risk, and the risk of the fund's management ability and willingness to maintain current fund credit quality. Unlike traditional credit ratings (e.g., issuer credit ratings), a fund credit quality rating does not address a fund's ability to meet payment obligations and is not a commentary on yield levels. Fund credit quality ratings are accompanied by fund volatility ratings (i.e., 'Af/S3')--when fund volatility ratings can be assigned--to communicate our opinion about certain risks not addressed by a fund credit quality rating.
Other services	Fund Volatility Ratings	A Fund Volatility Rating is a forward-looking opinion about a fixed-income investment fund's volatility of returns relative to that of a "reference index" denominated in the base currency of the fund. A reference index is composed of government securities associated with the fund's base currency. Fund volatility ratings are not globally comparable. Fund volatility ratings reflect our expectation of the fund's future volatility of returns to remain consistent with its historical volatility of returns. Fund volatility ratings reflect S&P Global Ratings' view of the fund's sensitivity to interest rate risk, credit risk, and liquidity risk, as well as other factors that may affect returns such as use of derivatives, use of leverage, exposure to foreign currency risk, and investment concentration, and fund management. Different symbology is used to distinguish fund volatility ratings from S&P Global Ratings' traditional issue or issuer credit ratings. We do so because fund volatility ratings do not reflect creditworthiness but rather our view of a fund's volatility of returns.

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Other Services	Insurance Risk-Based Capital (RBC) Model	<p>The Insurance RBC model takes inputs in the form of the dollar amount of various asset classes and sub-classes, along with insurance premiums, reserves, and other exposures. We apply factors to each input to derive a capital requirement arising from that risk. We use several correlation matrices to group these individual capital requirements and to reflect differing degrees of dependence between different risk pairings.</p> <p>The model calculates total available capital (TAC) from various balance-sheet and off-balance-sheet items. This represents S&amp;P Global Ratings view of the capital available to cover losses. We compare the "sum" of capital requirements above to TAC in order to estimate the level of capital adequacy for the insurer being assessed.</p>
Other Services	Principal Stability Fund Ratings	<p>An S&amp;P Global Ratings principal stability fund rating, also known as a "money market fund rating," is a forward-looking opinion about a fixed income fund's capacity to maintain stable principal (net asset value) and to limit exposure to principal losses due to credit risk. When assigning a principal stability rating to a fund, S&amp;P Global Ratings analysis focuses primarily on the creditworthiness of the fund's investments and counterparties, and also its investments' maturity structure and management's ability and policies to maintain the fund's stable net asset value. Principal stability fund ratings, or money market fund ratings, are identified by the 'm' suffix (e.g., 'AAAm') to distinguish the principal stability rating from an S&amp;P Global Ratings traditional issue or issuer credit rating. Principal stability fund ratings are neither commentaries on yield levels paid by the fund, nor are they commentaries on loss of principal due to negative yields.</p>
Other Services	Private Credit Analysis	<p>Private Credit Analysis is a Credit Estimate accompanied by a written report on the rationale for the Credit Estimate. A Private Credit Analysis may also be provided on the Mid-Market Evaluation Scale.</p>
Other Services	Servicer Evaluations	<p>A Servicer Evaluation is an opinion of a servicer's relative ability, efficiency and competence in servicing loan or asset portfolios, some of which may be included in structured finance transactions. The opinion is expressed on a 5-point descriptive scale from strong to weak, and is supported by a report based on the application of S&amp;P Global Ratings published methodology for assessing servicers.</p>
Other Services	Sustainable Finance External Reviews and Opinions	<p>S&amp;P Global Ratings' Sustainable Finance External Reviews and Opinions encompass Framework Alignment Opinions and Transaction Evaluations:</p> <ul style="list-style-type: none"> <li>• A Green Transaction Evaluation provides a relative green impact score on instruments targeted at financing environmentally beneficial projects. A Green Transaction Evaluation may also include a second opinion on alignment of the instrument with the published "Green Bond Principles" and/or "Green Loan Principles." A Green Transaction Evaluation provides a relative ranking of the financing globally. In a Green Transaction Evaluation we first consider the governance and transparency of the financing transaction from a green perspective. We then combine this assessment with an estimate of the asset's expected lifetime environmental impact in its region, relative to maintaining</li> </ul>

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		<p>the status quo. The analytical approach can evaluate both green mitigation and adaptation projects.</p> <ul style="list-style-type: none"> <li>• A Social Transaction Evaluation provides a relative social impact score on instruments targeted at financing socially beneficial projects. A Social Transaction Evaluation may also include a second opinion on alignment of the instrument with the published “Social Bond Principles.” A Social Transaction Evaluation provides a relative ranking of the financing globally. In a Social Transaction Evaluation we first consider the governance and transparency of the financing transaction from a social perspective. We then combine this assessment with an estimate of the asset's expected lifetime social impact in its region, relative to maintaining the status quo.</li> <li>• A Sustainable Transaction Evaluation provides a relative sustainability impact score on instruments targeted at financing both environmentally and socially beneficial projects. A Sustainable Transaction Evaluation may also include a second opinion on alignment of the instrument with the published “Sustainability Bond Guidelines.” A Sustainability Transaction Evaluation provides a relative ranking of the financing globally. In a Sustainability Transaction Evaluation we first consider the governance and transparency of the financing transaction from an environmental and social perspective. We then combine this assessment with an estimate of the asset's expected lifetime environmental and social impact in its region, relative to maintaining the status quo.</li> <li>• A Green Framework Alignment Opinion provides a second opinion on alignment of a green financing framework with the published “Green Bond Principles” and/or “Green Loan Principles.”</li> <li>• A Social Framework Alignment Opinion provides a second opinion on alignment of a social financing framework with the published “Social Bond Principles.”</li> <li>• A Sustainability Framework Alignment Opinion provides a second opinion on alignment of a sustainability financing framework with the published “Sustainability Bond Guidelines.”</li> </ul> <p>Sustainable Finance External Reviews and Opinions are not credit ratings, and do not consider credit quality or factor into our credit ratings. Sustainable Finance External Reviews and Opinions are not certifications or verifications. Sustainable Finance External Reviews and Opinions are point in time evaluations and are not surveilled.</p> <p>Note: S&amp;P Global Ratings has renamed its Green Evaluations service the Sustainable Finance External Reviews and Opinions and added new product features. Specifically the Social Framework Alignment Opinion and Sustainability Framework Alignment Opinion are anticipated to be available on October 12, 2020, and the Social Transaction Evaluation and Sustainability Transaction Evaluation, are anticipated to be available by year-end 2020.</p>
Credit Rating Activities	Advanced Analytics, including Financial Product Company Assessments	These are enhanced analytics that apply to an explicit part of an insurance company's operations.

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Credit Rating Activities	Corporate Mapping	Mapping is a correspondence table that can be used to statistically map the unrated assets within a diversified CDO asset portfolio to the S&P Global Ratings global rating scale. It may only be used as part of the rating analysis of CDOs under certain circumstances.
Credit Rating Activities	Rating Agency Confirmations (RAC)	Rating Agency Confirmations are confirmations provided to relevant parties (e.g., a bond trustee) that a proposed event or change to a rated transaction will not, in and of itself, cause us to lower, withdraw, or qualify our current ratings on that transaction.
Credit Rating Activities	Rating Evaluation Services (RES)	Rating Evaluation Service is an analytical service for rated or unrated entities that are considering strategic or financial initiatives that could impact their creditworthiness. At the request of an Issuer, S&P Global Ratings will provide a confidential assessment of the potential credit rating implications of hypothetical scenarios presented by the Issuer. It is typically used to help evaluate the impact of restructurings, acquisitions, divestitures, or material changes in debt or capital structure.
Credit Rating Activities	Recovery Ratings	Recovery ratings estimate the percentage of principal and accrued interest due at the point of hypothetical default on a company's debt instruments that can be recovered following its emergence from a hypothetical bankruptcy.