Short Mini Future on USD per 1 XBT

Termsheet (Final Terms)

SSPA Designation
Mini-Future (2210)

Contact
+41 58 283 78 88
www.derinet.com

In Switzerland, these financial instruments are considered structured products. They are not collective investment schemes within the meaning of the Swiss Federal Act on Collective Investment Schemes (CISA), and are therefore not subject to the regulations of the CISA or the supervision of the Swiss Financial Market Supervisory Authority FINMA. The investors bear the issuer’s credit risk.

Product Description

With Short Mini Futures the investor sets upon decreasing prices of the Underlying. They allow for overproportionate (leveraged) participation in each performance of the Underlying. Accordingly, they can be used for speculation or hedging purposes. Mini Futures feature a Stop-Loss Level below the Financing Level. The Financing Level is adjusted daily, the Stop-Loss Level is adjusted at least once a month. If the price of the Underlying reaches or exceeds this level during the Observation Period (Stop-Loss Event), the Short Mini Futures expire immediately and are basically redeemed at the then realizable market value. These Mini Futures do not have a fixed maturity (open end), but they may be exercised as from the First Exercise Date (american option). If no Stop-Loss Event occurred, the investor receives a Repayment Amount after five Bank Business Days in case of effective exercise (or in case of termination by the Issuer) which - taking into account the Ratio - corresponds to the amount by which the Relevant Valuation Price falls below the Financing Level on the Exercise Date.

Product Information

<table>
<thead>
<tr>
<th>ISIN / Security Number / Symbol</th>
<th>CH0481114772 / 48111477 / MXBAMV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issue Price</td>
<td>CHF 5.41</td>
</tr>
<tr>
<td>Reference Currency</td>
<td>CHF; issue, trading and redemption are in the Reference Currency</td>
</tr>
<tr>
<td>Initial Fixing</td>
<td>10 July 2019</td>
</tr>
<tr>
<td>Payment Date</td>
<td>17 July 2019</td>
</tr>
<tr>
<td>First exercise day</td>
<td>12 July 2019</td>
</tr>
<tr>
<td>Valuation date</td>
<td>The valuation date is the date on which: (a) the Mini-Futures are exercised by the holder in accordance with the terms and conditions governing Mini-Futures, or (b) the Mini-Futures are terminated by the Issuer, or (c) a Stop-loss event occurs, at which the occurrence of a Stop-loss event precedes the Mini-Future’s exercise by the holder or the termination by the Issuer, respectively.</td>
</tr>
<tr>
<td>Repayment Date</td>
<td>The Repayment amount will be paid out five bank working days after the Valuation Day.</td>
</tr>
<tr>
<td>Maturity</td>
<td>Open End</td>
</tr>
<tr>
<td>Underlying</td>
<td>Bitcoin (further details on the Underlying see below)</td>
</tr>
<tr>
<td>Spot Reference Price</td>
<td>USD 13'012.88</td>
</tr>
<tr>
<td>Financing Level at Initial Fixing</td>
<td>USD 15'606.38</td>
</tr>
<tr>
<td>Stop Loss Level at Initial Fixing</td>
<td>USD 14'670.00</td>
</tr>
<tr>
<td>Ratio</td>
<td>500 : 1</td>
</tr>
<tr>
<td>Type</td>
<td>Short</td>
</tr>
<tr>
<td>Settlement Type</td>
<td>Cash settlement</td>
</tr>
<tr>
<td>Leverage at initial fixing</td>
<td>4.78</td>
</tr>
<tr>
<td>Financing Spread at initial fixing</td>
<td>5.00%</td>
</tr>
<tr>
<td>Maximum financing spread</td>
<td>5.00%</td>
</tr>
<tr>
<td>Stop-Loss buffer at initial fixing</td>
<td>6.00%</td>
</tr>
<tr>
<td>Maximum Stop-Loss buffer</td>
<td>15.00%</td>
</tr>
<tr>
<td>Rounding of Financing Level</td>
<td>0.01</td>
</tr>
</tbody>
</table>
Rounding of Stop-loss level

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounding of Stop-loss level</td>
<td>10.00</td>
</tr>
</tbody>
</table>

Exercise right / Repayment amount

The owner is entitled to exercise his Mini Futures from the First exercise day based on applicable conditions and barring the occurrence of a Stop-Loss Event on this day and on any following bank working day, or to demand payment of a corresponding Redemption amount.

Exercise period / Exercise declaration

The exercise declaration must arrive at the Exercise agent by 11:00 am (Swiss Time) in the event of exercise requests arriving later or after the determination of the relevant valuation price on the Reference exchange, the next bank working day is deemed to be the exercise day.

Issuer's call right

The issuer is entitled to terminate unexercised Mini Futures on any bank working day. The issuer's call right is unconditional at any time, but the issuer may exercise this right in particular with respect to a hedging disruption (as described below) or for tax or other extraordinary reasons and in the event of no outstanding positions (as detailed in the Issuance Program).

Hedging disruption

A hedging disruption occurs in case the Issuer and / or its affiliated companies are not able, even under economically reasonable efforts (i) to conclude hedging transactions, reenter, replace, maintain, solve, acquire or dispose of, or (ii) to realize revenues, recover or transfer such hedging transactions. The Issuer shall decide at its sole discretion whether a hedging disruption occurs. If the Issuer determines a Hedging disruption, he may at its sole discretion defer the Valuation Date (and Redemption Date) for the duration of the Hedging disruption.

Observation Period

From Initial Fixing, continuous monitoring (24 hours, 7 days).

Stop-loss event

A stop-loss event occurs when the value of the relevant Underlying of the Mini-Futures touches or exceeds the Current stop-loss level within the Observation period and during the Underlying's trading hours, at which the Mini-Futures are automatically exercised and become invalid.

The Calculation Agent shall determine the observable price of the Underlying on an ongoing basis, at its sole discretion, based on the prices of the Underlying at the Reference Exchanges.

Stop-Loss liquidation price

A price for the Underlying determined by the Calculation Agent, which is derived from a value of the relevant Underlying within a period of three bank working days after the stop-loss event has occurred.

Redemption amount

For each Mini-Future exercised or terminated, the following amount is paid back to the investor in the reference currency:

\[ \max(0; \textit{current financing level} - \textit{final fixing price}) \times \text{FX} \]

Where:

- \( \text{FX} \): current Interbank conversion rate of the trading currency of the underlying into the reference currency.
- \( \text{FX} \): the value achieved when calculating the redemption amount is rounded up and off, respectively, to two decimal points.

Final fixing price

The final fixing price is equal to the relevant valuation price on the valuation date in case of (a) an exercise by the holder of the Mini-Future or (b) a termination by the issuer, whereas in case (c) a stop-loss event occurs, the final fixing price is equal to the stop-loss liquidation price.

Relevant valuation price

The Reference Price determined by the Calculation Agent.

Reference Price

The Calculation Agent shall determine, at its sole discretion, the reference price of the Underlying for one day based on the prices of the Underlying during that day at the Reference Exchanges.

Current Financing Level

The current financing level of the Mini-Future is adjusted by the Calculation Agent at the end of each adjustment day in accordance with the following formula:

\[ FL_{n} = FL_{a} + \frac{(r - FS) \times FL_{a} \times n}{360} \]

where:

- \( FL_{a} \): Financing level following the adjustment = Current Financing level.
- \( FL_{a} \): Financing level before the adjustment.
- \( r \): Interest rate; Interest rate for Money Market deposit overnight which is determined by the paying and calculation agent in the trading currency of the underlying.
- \( FS \): Current financing spread
- \( n \): number of calendar days between the current Adjustment Date (exclusive) and the next Adjustment Date (inclusive).
- The result of the calculation shall be rounded downwards to the next multiple of the rounding of the financing level.

Adjustment day for Stop-loss level

The first adjustment day of each month. If the Calculation Agent deems it necessary, at its own discretion an adjustment may be made on each Adjustment day.

Current financing spread

The Current financing spread is fixed by the Calculation Agent at its own discretion within a range of between zero and the Maximum financing spread on each Adjustment day.

Current stop-loss level

A value determined on each Adjustment day for the Stop-loss level by the Calculation Agent after adjustment of the Current financing level, according to the following formula and rounded off to the next multiple of the rounded Stop-loss level:

\[ \text{Current Stop-loss buffer} = \text{Current Financing Level} \times \text{Current Financing Spread} \times \text{Current Stop-loss level} \]
### Parties

<table>
<thead>
<tr>
<th>Role</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issuer</td>
<td>Bank Vontobel AG, Zurich (Moody's Long Term Deposit Rating: Aa3)</td>
</tr>
<tr>
<td>Lead Manager</td>
<td>Bank Vontobel AG, Zurich</td>
</tr>
<tr>
<td>Paying, Exercise and Calculation Agent</td>
<td>Bank Vontobel AG, Zurich</td>
</tr>
<tr>
<td>Supervision</td>
<td>Bank Vontobel AG is authorised as a bank and securities dealer in Switzerland and is subject to prudential supervision by the Federal Financial Markets Regulator (FINMA).</td>
</tr>
</tbody>
</table>

### Further Information

<table>
<thead>
<tr>
<th>Further Information</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issue size</td>
<td>50'000'000 Mini Future, with the option to increase</td>
</tr>
<tr>
<td>Title</td>
<td>The structured products are issued in the form of non-certificated book-entry securities of the issuer. No certificates, no printing of bonds.</td>
</tr>
<tr>
<td>Depositary</td>
<td>SIX SIS AG</td>
</tr>
<tr>
<td>Clearing / Settlement</td>
<td>SIX SIS AG, Euroclear Brussels, Clearstream (Luxembourg)</td>
</tr>
<tr>
<td>Applicable Law / Jurisdiction</td>
<td>Swiss law / Zurich, Switzerland</td>
</tr>
<tr>
<td>Publication of notices and adjustments</td>
<td>All notices to investors concerning the products and adjustments to the product terms (e.g. due to corporate actions) are published under the &quot;Product history&quot; of the respective product at <a href="http://www.derinet.com">www.derinet.com</a>. In the case of products listed at SIX Swiss Exchange notifications are published at <a href="http://www.six-swiss-exchange.com">www.six-swiss-exchange.com</a> in accordance with applicable rules, too.</td>
</tr>
<tr>
<td>Secondary market trading</td>
<td>Throughout the entire term a secondary trading is conducted. Indicative daily prices of this product are available at <a href="http://www.derinet.com">www.derinet.com</a>.</td>
</tr>
<tr>
<td>Listing</td>
<td>Will be applied for in the main segment at the SIX Swiss Exchange.</td>
</tr>
<tr>
<td>Minimum investment</td>
<td>1 Mini Future</td>
</tr>
<tr>
<td>Minimum exercise volume</td>
<td>1 Mini Future or multiples thereof</td>
</tr>
<tr>
<td>Minimum trading lot</td>
<td>1 Mini Future</td>
</tr>
</tbody>
</table>

### Tax treatment in Switzerland

<table>
<thead>
<tr>
<th>Tax treatment in Switzerland</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swiss Income Tax</td>
<td>Gains from this product are not subject to direct federal taxes.</td>
</tr>
<tr>
<td>Swiss Withholding Tax</td>
<td>No Swiss withholding tax</td>
</tr>
<tr>
<td>Swiss turnover tax</td>
<td>Secondary market transactions are not subject to the Swiss turnover tax.</td>
</tr>
<tr>
<td>General Information</td>
<td>Transactions and payments relating to this product may be subject to further (foreign) transaction taxes, duties and/or withholding taxes, in particular a withholding tax pursuant to the Section B71(m) of the US Internal Revenue Code. All payments from this product will occur with any applicable taxes and duties deducted. The taxation mentioned is a non-binding and non-exhaustive summary of the applicable treatment of Swiss-domiciled private investors for tax purposes. The investor's specific circumstances, however, are not taken into account. We point out that Swiss and/or foreign tax law or the authoritative practice of Swiss and/or foreign tax authorities can change at any time or specify further tax or charge liabilities (possibly even with retroactive effect). Potential investors should have the tax effects of the purchase, holding, sale or repayment of this product examined by their own tax adviser - especially with respect to the effects of taxation under another jurisdiction.</td>
</tr>
</tbody>
</table>

### Description of the underlying

<table>
<thead>
<tr>
<th>Description of the underlying</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>USD per 1 XBT</td>
<td>Designation and description: US Dollar (USD) per 1 Bitcoin (XBT)</td>
</tr>
<tr>
<td></td>
<td>The term “Bitcoin” refers to an internet currency whose monetary units are created and managed decentralized on a computer network. Bitcoin users who are connected with each other via the internet can transfer bitcoins to one another electronically. Bitcoins only exist virtually on a computer network and have no physical equivalent. Bitcoins are traded in a completely decentralized way on the internet and do not have to be processed via intermediaries of any kind (e.g. countries, central / commercial banks).</td>
</tr>
<tr>
<td>Reference Agents</td>
<td>Coinbase Prime, Kraken, Bitstamp</td>
</tr>
<tr>
<td>Identification</td>
<td>Bloomberg &lt;XBTUSD Curncy&gt;</td>
</tr>
</tbody>
</table>
Prospects of Profit and Losses

Short Mini-Futures provide the opportunity to benefit overproportionally from a negative performance of the underlying. The maximum potential profit is, however, limited and reached when the price of the underlying drops to zero. The potential loss is limited to the amount of capital invested.

Price changes of the underlying may have an overproportionate impact on the value of the product due to the leverage effect. There is a possible profit from the positive difference between the sales price achieved or repayment amount and the issue or purchase price paid. The redemption amount receivable in the event of any exercise of the Mini-Future depends on the figure by which the final fixing price falls below of the current financing level. Short Mini-Futures do not yield current income. As a rule, they lose value if there is no price loss in the underlying. Accordingly, Short Mini-Futures lose value under certain conditions even if the price of the underlying remains stable.

Mini-Futures have no set maturity but immediately become worthless when the stop-loss level is reached and as a rule are redeemed at their then achievable market value. The stop-loss level is adjusted periodically. The risk for an investment in Mini-Futures is based not only on the leverage effect but also on the danger of a stop-loss level event occurring, which is significantly greater than it would be for a direct investment.

Significant Risks for Investors

Risks related to the Underlying

As the Federal Council elaborated in its report on virtual currencies dated 25 June 2014, users of virtual currencies (and therefore investors in products with Bitcoin as an underlying, indirectly) are exposed to elevated risk of fraud and loss. Several markets for Bitcoin already had to cease their activities or have been closed for other reasons - in some cases because of hacker attacks.

Bitcoin can be stolen. After purchase, Bitcoin is regularly stored in a "virtual wallet" on a computer, laptop or smartphone. These virtual wallets are usually protected by a private key or password. Virtual wallets also usually have a public key and a private key or a password for the access. However, virtual wallets are not fully protected from hackers. Just as in real wallets, money can be stolen from a virtual wallet as well.

Thefts and hacker attacks can have a negative impact on the reputation of the currency or the market place concerned and thus affect negatively the market price of Bitcoin. Through the product, investors would indirectly participate to such a negative performance, the total loss would be possible.

Bitcoin can be used anonymously and Bitcoin do not have to be traded through government institutions or banks. Bitcoin can be purchased directly from an owner or a trading venue. These platforms are generally not regulated. Investors thus face increased risk of the issuer identifying occurrence of a hedging disruption, involving the loss risks outlined below.

The market value of a Bitcoin is not based on any kind of claim, nor any physical asset. Instead, the market value depends entirely on the expectation of being usable in future transactions. This strong correlation between an expectation and market value is the basis for the current and probably future volatility of the market value of Bitcoin.

If over 50% of all computers used worldwide for verifying Bitcoin transactions are subject to control by a single instance, there is a risk that the controlling instance could take over 100% of all transactions. Such "51% attacks", as they are known, can cause overall confidence in Bitcoin to evaporate, bringing all trading to a halt, thereby causing losses for investors up to and including a possible total loss.

Risks due to hedging disruptions

If the issuer identifies a hedging disruption, investors are exposed to the risk of total loss, as the final fixing could be based on an underlying valued at zero.

Currency risks

If the underlying(s) or underlyings is/are denominated in a currency other than the product's reference currency, investors should bear in mind that this may involve risks due to fluctuating exchange rates and that the risk of loss does not only depend on the performance of the underlying(s) but also on any unfavourable performance of the other currency or currencies. This does not apply for currency-hedged products (quanto structure).

Market risks

The general market performance of securities is dependent in particular on the development of the capital markets which, for their part, are influenced by the general global economic situation as well as by the economic and political framework conditions in the respective countries (so-called market risk). Changes to market prices such as interest rates, commodity prices or corresponding volatilities may have a negative effect on the valuation of the underlying(s) or the structured product. There is also the risk of market disruptions (such as trading or stock market interruptions or discontinuation of trading) or other unforeseeable occurrences concerning the respective underlyings and/or their stock exchanges or markets taking place during the term or upon maturity of the structured products. Such occurrences can have an effect on the time of redemption and/or on the value of the structured products.

In the event of trading restrictions, sanctions and similar occurrences, the issuer is entitled, for the purpose of calculating the value of the structured product, to include at its own discretion the underlying instruments at their most recently traded price, at a fair value to be established at its sole discretion or indeed as worthless, and/or additionally to suspend pricing in the structured product or liquidate the structured product prematurely.

Secondary market risks

Under normal market conditions, the issuer or the lead manager intend to post bid- and ask-prices on a regular basis. However, neither the issuer nor the lead manager is under any obligation with respect to investors to provide such bid- and ask-prices for specific order or securities volumes, and there is no guarantee of a specific liquidity or of a specific spread (i.e. the difference between bid- and ask-prices), for which reason investors cannot rely on being able to purchase or sell the structured products on a specific date or at a specific price.

Issuer risk

The value of structured products may depend not only on the performance of the underlying(s), but also on the creditworthiness of the Issuer, which may change during the term of the structured product. The investor is exposed to the risk of default of the Issuer. For further information on the rating of Bank Vontobel AG, please see the Program.

Risks relating to potential conflicts of interest

There may be conflicts of interest at the Vontobel Group companies that could have a negative impact on the value of the Structured Products. For example, Vontobel Group companies may enter into or participate in trading and hedging transactions relating to the Underlying. They may
also perform other functions relating to the Structured Products (e.g. as Calculation Agent, Index Sponsor and/or Market Maker) which enable them to determine the composition of the Underlying or calculate its value. Vontobel Group companies may also receive non-public information relating to the Underlying. It should also be noted that the payment of distribution fees and other commissions to financial intermediaries could result in conflicts of interest to the detriment of the investor, as this could create an incentive for the financial intermediary to distribute products with a higher commission preferentially to its clients. As market maker, Vontobel Group companies can determine the price of Structured Products themselves to a large extent and determine it on the basis of various factors and earnings considerations.

Please also note the further, detailed description of potential conflicts of interest and their impact on the value of the Structured Products as contained in the Issuance Program.

Selling Restrictions
U.S.A., U.S. Persons, UK, DIFC/Dubai
European Economic Area (EEA): Investors should note the selling restrictions: since neither this termsheet nor the Issuance Program meets the requirements of the EU Prospectus Directive, the implementing regulations or the national transposing measures, this security may not be publicly offered for sale within the European Economic Area (EEA) until a corresponding prospectus has been drawn up and approved by the supervisory authority, unless: (a) this offer is aimed exclusively at qualified investors, (b) this offer is aimed at fewer than 150 investors in total in each state in the EEA, (c) the minimum investment amount per investor is EUR 100'000 or the securities have a minimum nominal value of EUR 100'000, or (d) the selling price of all the securities offered is less than EUR 100'000.

Further risk information and selling restrictions
Please also note the additional risk factors and selling restrictions set out in detail in the Issuance Program.

Legal Notices
Product documentation
Only the Termsheets published at www.derinet.com along with the associated notices and adjustments shall be legally valid. The original version of the Termsheet is in German; foreign-language versions constitute non-binding translations. The Issuer and/or Bank Vontobel AG is entitled to correct spelling mistakes, calculation or other obvious errors in this Termsheet and to make editorial changes, as well as to amend or supplement contradictory or incomplete provisions, without the consent of the investors. The "Termsheet (Final Terms)", which is usually issued on the date of the initial fixing, contains a summary of the most important final terms and information, and constitutes the "Final Terms" pursuant to art. 21 of the Additional Rules for the Listing of Derivates of SIX Swiss Exchange. Together with the current Issuance Program, registered with SIX Swiss Exchange (the „Issuance Program“), the Final Terms constitute the complete listing prospectus according to the Listing Rules. In the event of discrepancies between this Termsheet and the Issuance Program, the provisions of the Final Terms shall take precedence.

For structured products not listed on the SIX Swiss Exchange, the Termsheet (Final Terms) constitutes the definitive simplified prospectus pursuant to art. 5 of the Federal Act on Collective Investment Schemes (CISA). In addition, reference is also made (with the exception of the provisions authoritative for a listing) to the Issuance Program, in particular to the detailed information on risks contained therein, to the General Terms and Conditions and to the descriptions of the corresponding product types.

During the entire term of the Structured Product, all documents may be ordered free of charge from Bank Vontobel AG, Financial Products documentation, Bleicherweg 21, 8002 Zurich, Switzerland (telephone: +41 58 283 78 88) and may also be downloaded on the www.derinet.com website. Vontobel explicitly rejects any liability for publications on other Internet platforms.

Further information
The list and information shown do not constitute a recommendation concerning the underlying in question; they are for information purposes only and do not constitute either an offer or an invitation to submit an offer, or a recommendation to purchase financial products. Indicative information is provided without warranty. The information is not a substitute for the advice that is indispensable before entering into any derivative transaction. Only investors who fully understand the risks of the transaction to be concluded and who are commercially in a position to bear the losses which may thereby arise should enter into such transactions. Furthermore, we refer to the brochure "Special Risks in Securities Trading" which you can order from us. In connection with the issuing and/or selling of structured products, companies from the Vontobel Group can pay reimbursements to third parties directly or indirectly in different amounts (for details see "Figures for fees and charges"). Such commission is included in the issue price. You can obtain further information from your sales agent upon request. We will be happy to answer any questions you may have concerning our products on +41 58 283 78 88 from 08.00 – 17.00 CET on bank business days. Please note that all calls to this number are recorded. By calling this number, your consent to such recording is deemed given.

Material changes since the most recent annual financial statements
Subject to the information in this Termsheet and the Issuance Program, no material changes have occurred in the assets and liabilities, financial position and profits and losses of the issuer/guarantor since the reporting date or the close of the last financial year or the interim financial statements of the issuer and, as the case may be, of the guarantor.

Responsibility for the listing prospectus
Bank Vontobel AG takes responsibility for the content of the listing prospectus and hereby declares that, to the best of its knowledge, the information is correct and that no material facts or circumstances have been omitted.
Your customer relationship will be happy to answer any questions you may have.

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