

Chronicle

[Chronicle Protocol](#) is a novel Oracle solution that overcomes the current limitations of transferring data on-chain by developing scalable, cost-efficient, decentralized, and verifiable Oracles, rewriting the rulebook on data transparency and accessibility.

Querying the price of ARB using Chronicle

Chronicle contracts are read-protected by a whitelist, meaning you won't be able to read them on-chain without your address being added to the whitelist. On the Testnet, users can add themselves to the whitelist through the SelfKisser contract; a process playfully referred to as "kissing" themselves. To access production Oracles on the Mainnet, please open a support ticket in [Discord](#) in the [SOS](#) | support channel.

For the deployment addresses, please check out the [Dashboard](#).

```
// SPDX-License-Identifier: MIT pragma
```

```
solidity
```

```
^ 0.8.16 ;
```

```
/* * @title OracleReader * @notice A simple contract to read from Chronicle oracles * @dev To see the full repository, visit https://github.com/chronicleprotocol/OracleReader-Example. * @dev Addresses in this contract are hardcoded for the Arbitrum Sepolia testnet. * For other supported networks, check the https://chroniclelabs.org/dashboard/oracles. */ contract
```

```
OracleReader
```

```
{ /* * @notice The Chronicle oracle to read from. * Chronicle_ARB_USD_1 - 0xdD7c06561689c73f0A67F2179e273cCF45EFc964 * Network: Arbitrum Sepolia */
```

```
    IChronicle public chronicle =
```

```
    IChronicle ( address ( 0xdD7c06561689c73f0A67F2179e273cCF45EFc964 ) ) ;
```

```
/* * @notice The SelfKisser granting access to Chronicle oracles. * SelfKisser_1:0xc0fe3a070Bc98b4a45d735A52a1AFDd134E0283f * Network: Arbitrum Sepolia */ ISelfKisser public selfKisser =
```

```
    ISelfKisser ( address ( 0xc0fe3a070Bc98b4a45d735A52a1AFDd134E0283f ) ) ;
```

```
    constructor ( )
```

```
{ // Note to add address(this) to chronicle oracle's whitelist. // This allows the contract to read from the chronicle oracle. selfKisser . selfKiss ( address ( chronicle ) ) ; }
```

```
/* * @notice Function to read the latest data from the Chronicle oracle. * @return val The current value returned by the oracle. * @return age The timestamp of the last update from the oracle. */ function
```

```
    read ( )
```

```
    external
```

```
    view
```

```
    returns
```

```
    ( uint256 val ,
```

```
    uint256 age )
```

```
{ ( val , age )
```

```
= chronicle . readWithAge ( ) ; }
```

```
// Copied from chronicle-std. interface
```

```
    IChronicle
```

```
/* * @notice Returns the oracle's current value. * @dev Reverts if no value set. * @return value The oracle's current value. */ function
```

```
read ( )
```

```
external
```

```
view
```

```
returns
```

```
( uint256 value ) ;
```

```
/* * @notice Returns the oracle's current value and its age. * @dev Reverts if no value set. * @return value The oracle's  
current value using 18 decimals places. * @return age The value's age as a Unix Timestamp . */ function
```

```
readWithAge ( )
```

```
external
```

```
view
```

```
returns
```

```
( uint256 value ,
```

```
uint256 age ) ; }
```

```
// Copied from self-kisser. interface
```

```
ISelfKisser
```

```
{ /// @notice Kisses caller on oracle. function
```

```
selfKiss ( address oracle )
```

```
external ; }
```

More examples

For more examples of integrating Chronicle Oracles, please check the [documentation portal](#) . [Edit this page](#) Last updated on Jan 27, 2025 [Previous](#) [Chainlink](#) [Next](#) [ORA](#)