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Project Name

@tradetrust-tt/dnsprove

Version

^2.18.0

Github

<https://github.com/TradeTrust/dnsprove>

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Description

A helper library to retrieve OpenAttestation DNS-TXT records from domains using Google's public DNS service.

Project Name

@tradetrust-tt/ethers-aws-kms-signer

Github

<https://github.com/TradeTrust/ethers-aws-kms-signer>

Version

^2.1.4

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Description

This is a wallet or signer that can be used together with [Ethers.js](#) applications, using AWS KMS as the key storage.

Project Name

@tradetrust-tt/token-registry-v4

Github

<https://github.com/TradeTrust/token-registry>

Version

^4.16.0

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Description

The Electronic Bill of Lading (eBL) is a digital document that can be used to prove the ownership of goods. It is a standardised document that is accepted by all major shipping lines and customs authorities. The [Token Registry](#) repository contains both the smart contract code for token registry (in `/contracts`) as well as the node package for using this library (in `/src`).

Project Name

@tradetrust-tt/token-registry-v5

Github

<https://github.com/TradeTrust/token-registry>

Version

^5.5.0

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Description

The Electronic Bill of Lading (eBL) is a digital document that can be used to prove the ownership of goods. It is a standardised document that is accepted by all major shipping lines and customs authorities. The [Token Registry](#) repository contains both the smart contract code for token registry (in `/contracts`) as well as the node package for using this library (in `/src`).

Project Name

@tradetrust-tt/tradetrust

Github

<https://github.com/TradeTrust/tradetrust>

Version

^6.10.2

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Description

Attestation and notary framework for any document types on the blockchain.

TradeTrust allows any entity to prove the existence of a document or a batch of documents. It makes use of smart contracts on the Ethereum blockchain to store cryptographic proofs of individual documents.

Alternatively, TradeTrust can be used to make digitally verifiable documents using digital signatures, forgoing the need to pay for Ethereum transactions.

The [TradeTrust](<https://github.com/TradeTrust/tradetrust>) repository allows you to batch the documents to obtain the merkle root of the batch to be committed to the blockchain. It also allows you to verify the signature of the document wrapped using the TradeTrust framework.

Project Name

@tradetrust-tt/tradetrust-utils

Github

<https://github.com/TradeTrust/tradetrust-utils>

Version

^2.4.2

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Description

This is a repository that houses shared project logic between tradetrust website and tradetrust document creator.

Project Name

@tradetrust-tt/tt-verify

Github

<https://github.com/TradeTrust/tt-verify>

Version

^9.6.0

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Description

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- Verifying a document
- Building custom verifier
- Building custom validation

This module does not provide the following functionality:

- Programmatic [wrapping of TradeTrust documents](#)
- Encryption or decryption of TradeTrust documents (refer to [Open Attestation \(Encryption\)](#))
- Programmatic issuance/revocation of document on the Ethereum blockchain

Project Name

@trustvc/w3c

Github

<https://github.com/TrustVC/w3c>

Version

2.0.0

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Description

A wrapper lib build for TrustVC to work with W3C Verifiable Credentials (VCs) Data Model v1.1. Provides packages to facilitate the creation of Decentralized Identifiers (DIDs) v1, specifically did:web, and Verifiable Credentials Status Status List v2021.

Project Name

@trustvc/w3c-context

Github

<https://github.com/TrustVC/w3c/tree/main/packages/w3c-context>

Version

^1.3.0-alpha.10

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Description

A comprehensive package that caches commonly used JSON-LD context schemas for W3C Verifiable Credentials and Data Integrity proofs. This package provides a document loader that resolves context URLs locally, improving performance and reliability for verifiable credential operations.

Features

- Local Context Caching: Pre-cached JSON-LD contexts for faster resolution
- W3C Standards Support: Full support for W3C Verifiable Credentials and Data Integrity specifications
- Cryptosuite Support: Includes contexts for multiple cryptographic suites:
 - BBS+ signatures (bbs-v1)
 - JWS 2020 (jws-2020)
 - BLS12-381 keys
- DID Resolution: Built-in support for DID document resolution
- Custom Context Support: Ability to add additional contexts at runtime
- TypeScript Support: Full TypeScript definitions included

Project Name

@trustvc/w3c-credential-status

Github

<https://github.com/TrustVC/w3c/tree/main/packages/w3c-credential-status>

Version

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Description

Implements credential status management for Verifiable Credentials (VCs) using @trustvc/w3c-credential-status. It supports lifecycle operations such as revocation and suspension without altering the original credential, enabling verifiers to check a credential's current status. The project utilizes status lists and handles the credential validation process.

This package supports both W3C VC Data Model v1.1 (legacy) and W3C VC Data Model v2.0 (modern) specifications:

- v1.1 Support: Uses `StatusList2021Credential` with `StatusList2021Entry` credential status
- v2.0 Support: Uses `BitstringStatusListCredential` with `BitstringStatusListEntry` credential status

The [Bitstring Status List](#) specification (v2.0) and the legacy [Status List 2021](#) specification (v1.1) both refer to methods of representing the revocation/suspension status of multiple items (such

as digital certificates or credentials) using a bitstring (a sequence of bits). This technique allows for efficient tracking and management of which items are valid or revoked without needing to maintain extensive individual records for each item.

Revoking/Suspending a VC

The revocation or suspension of Verifiable Credentials is achieved by changing the binary value of the bitstring at its given position in the bitstring. Every time the bitstring state changes, it must be compressed, encoded, and published as a Status VC.

For W3C VC Data Model v1.1:

- Status VC type: `StatusList2021Credential`
- Credential status type: `StatusList2021Entry`
- Credential subject type: `StatusList2021`

For W3C VC Data Model v2.0:

- Status VC type: `BitstringStatusListCredential`
- Credential status type: `BitstringStatusListEntry`
- Credential subject type: `BitstringStatusList`

This module provides functionality to create/update a signed Verifiable Credential (VC) for credential status, using a specified cryptographic suite and key pair. It supports modern ECDSA-SD-2023 and BBS-2023 cryptosuites.

Project Name

@trustvc/w3c-issuer

Github

<https://github.com/TrustVC/w3c/tree/main/packages/w3c-issuer>

Version

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Description

A library to facilitate the creation of [Decentralized Identifiers](#) DIDs v1, specifically [did:web](#), for the signing of [Verifiable Credentials](#) v1.1.

Features

- Create private key pairs for specific signature suites used for signing Verifiable Credentials: [ECDSA-SD-2023](#), [BBS-2023](#), and [legacy suites](#).
- Generate DID private key pairs and DID documents.

Project Name

@trustvc/w3c-vc

Github

<https://github.com/TrustVC/w3c/tree/main/packages/w3c-vc>

Version

^1.3.0-alpha.11

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Description

This repository provides utilities for signing, verifying, and deriving Verifiable Credentials (VCs) using modern cryptographic signature schemes including ECDSA-SD-2023 and BBS-2023, with selective disclosure capabilities. These functions ensure the authenticity and integrity of VCs within a W3C-compliant ecosystem.

Project Name

ethers

Github

<https://github.com/ethers-io/ethers.js>

Version

^5.8.0

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Description

A complete, compact and simple library for Ethereum and ilk, written in [TypeScript](#).

Features

- Keep your private keys in your client, safe and sound
- Import and export JSON wallets (Geth, Parity and crowdsale)
- Import and export BIP 39 mnemonic phrases (12 word backup phrases) and HD Wallets (English as well as Czech, French, Italian, Japanese, Korean, Simplified Chinese, Spanish, Traditional Chinese)
- Meta-classes create JavaScript objects from any contract ABI, including ABIv2 and Human-Readable ABI
- Connect to Ethereum nodes over [JSON-RPC](#), [INFURA](#), [Etherscan](#), [Alchemy](#), [Ankr](#) or [MetaMask](#)
- ENS names are first-class citizens; they can be used anywhere an Ethereum addresses can be used
- Small (~144kb compressed; 460kb uncompressed)
- Tree-shaking focused; include only what you need during bundling
- Complete functionality for all your Ethereum desires
- Extensive [documentation](#)
- Large collection of test cases which are maintained and added to
- Fully written in TypeScript, with strict types for security and safety
- MIT License (including ALL dependencies); completely open source to do with as you please

Project Name

ethersV6

Github

<https://github.com/ethers-io/ethers.js>

Version

^6.14.4

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A complete, compact and simple library for Ethereum and ilk, written in [TypeScript](#).

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- Small (~144kb compressed; 460kb uncompressed)
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- Complete functionality for all your Ethereum desires
- Extensive [documentation](#)
- Large collection of test cases which are maintained and added to
- Fully written in TypeScript, with strict types for security and safety
- MIT License (including ALL dependencies); completely open source to do with as you please

Project Name

js-sha3

Github

<https://github.com/emn178/js-sha3>

Version

^0.9.3

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Description

A simple SHA-3 / Keccak / Shake hash function for JavaScript supports UTF-8 encoding

Project Name

ts-chacha20

Github

<https://github.com/hscrypt/ts-chacha20>

Version

^1.2.0

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Description

TypeScript ChaCha20 stream cipher (TypeScript port of [thesimj/js-chacha20](#))

Abstract

ChaCha20 is a stream cipher designed by D. J. Bernstein. It is a refinement of the [Salsa20](#) algorithm, and it uses a 256-bit key.

ChaCha20 successively calls the ChaCha20 block function, with the same key and nonce, and with successively increasing block counter parameters. ChaCha20 then serializes the resulting state by writing the numbers in little-endian order, creating a keystream block.

Concatenating the keystream blocks from the successive blocks forms a keystream. The ChaCha20 function then performs an XOR of this keystream with the plaintext. Alternatively, each keystream block can be XORed with a plaintext block before proceeding to create the next block, saving some memory. There is no requirement for the plaintext to be an integral multiple of 512 bits. If there is extra keystream from the last block, it is discarded.

The inputs to ChaCha20 are:

- 256-bit key
- 96-bit nonce. In some protocols, this is known as the Initialization Vector
- 32-bit initial counter
- Arbitrary-length plaintext

Project Name

@digitalbazaar/bitstring

Github

<https://github.com/digitalbazaar/bitstring>

Version

^3.1.0

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Description

A Bitstring module for universal JavaScript.

Project Name

@digitalbazaar/vc-bitstring-status-list

Github

<https://github.com/digitalbazaar/vc-bitstring-status-list>

Version

^1.0.0

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Description

This specification describes a privacy-preserving, space-efficient, and high-performance mechanism for publishing the status information associated with Verifiable Credentials.

Project Name

@inquirer/prompts

Github

<https://github.com/SBoudrias/Inquirer.js>

Version

^5.3.8

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Description

A collection of common interactive command line user interfaces.

Project Name

@mattglobal/bls12381-key-pair

Github

<https://github.com/mattglobal/bls12381-key-pair>

Version

^1.2.1

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Description

This library supports generating [BLS12-381](#) key pairs and supports the signing and verification of [BBS+ signatures](#).

Project Name

@mattrglobal/jsonld-signatures-bbs

Github

<https://github.com/mattrglobal/jsonld-signatures-bbs>

Version

^1.2.0

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Description

The following repository contains a [linked data proof](#) implementation for creating [BBS+ Signatures](#) using [BLS12-381](#) key pairs.

Due to the properties of a [BBS+ Signatures](#), [zero knowledge proof](#) can be derived from the signature, where-by the party generating the proof can elect to selectively disclose statements from the originally signed payload.

This library is runnable in browser and Node.js through the [WASM](#) based crypto implementation provided by [bbs-signatures](#). Note [bbs-signatures](#) also has an optional dependency on [node-bbs-signatures](#) which can be used when running in [Node.JS](#) environments to obtain better performance. For environments that do not feature [WASM](#) support such as [react native](#), [bbs-signatures](#) includes an automatic roll back to an [asm.js](#) version but note however the performance difference between [asm.js](#) and [WASM](#) is significant, for those inclined there are runnable benchmarks in [bbs-signatures](#).

Project Name

Base64url-universal

Github

<https://github.com/digitalbazaar/base64url-universal>

Version

^2.0.0

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Description

Encode/Decode input according to the "Base64url Encoding" format as specified in JSON Web Signature (JWS) RFC7517. A URL safe character set is used and trailing '=', line breaks, whitespace, and other characters are omitted.

- `base64url-universal`
 - `encode(input)` ⇒ `string` ▲
 - `decode(input)` ⇒ `Uint8Array` ▲

`encode(input)` ⇒ `string` ▲

Encodes input according to the "Base64url Encoding" format as specified in JSON Web Signature (JWS) RFC7517. A URL safe character set is used and trailing '=', line breaks, whitespace, and other characters are omitted.

Project Name

Bip39

Github

<https://github.com/bitcoinjs/bip39>

Version

^3.1.0

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Description

JavaScript implementation of [Bitcoin BIP39](#): Mnemonic code for generating deterministic keys

Project Name

Chalk

Github

<https://github.com/chalk/chalk>

Version

^4.1.2

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Description

JavaScript library used to add **styled and colored text** in the terminal/console.

Project Name

did-resolver

Github

<https://github.com/decentralized-identity/did-resolver>

Version

^4.1.0

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Description

This library is intended as a simple common interface for javascript applications to resolve DID documents from Decentralized Identifiers (DIDs).

This is intended to support the proposed [Decentralized Identifiers](#) spec from the [W3C Credentials Community Group](#).

Project Name

ethr-did-resolver

Github

<https://github.com/decentralized-identity/ethr-did-resolver>

Version

^10.1.9

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Description

This library is intended to use ethereum addresses or secp256k1 publicKeys as fully self-managed [Decentralized Identifiers](#) and wrap them in a [DID Document](#)

It supports the proposed [Decentralized Identifiers](#) spec from the [W3C Credentials Community Group](#).

It requires the `did-resolver` library, which is the primary interface for resolving DIDs.

This DID method relies on the [ethr-did-registry](#).

Project Name

Express

Github

<https://github.com/expressjs/express>

Version

^4.19.2

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Description

Fast, unopinionated, minimalist web framework for [Node.js](#).

Features

- Robust routing
- Focus on high performance
- Super-high test coverage
- HTTP helpers (redirection, caching, etc)
- View system supporting 14+ template engines
- Content negotiation
- Executable for generating applications quickly

Project Name

inquirer

Github

<https://github.com/SBoudrias/Inquirer.js>

Version

^10.1.2

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Description

A collection of common interactive command line user interfaces.

Project Name

jsonld

Github

<https://github.com/digitalbazaar/jsonld.js>

Version

^6.0.0

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Description

JSON, as specified in [RFC7159](#), is a simple language for representing objects on the Web.

Linked Data is a way of describing content across different documents or Web sites. Web resources are described using IRIs, and typically are dereferenceable entities that may be used to find more information, creating a "Web of Knowledge". [JSON-LD](#) is intended to be a simple publishing method for expressing not only Linked Data in JSON, but for adding semantics to existing JSON.

Project Name

jsonld-signatures

Github

<https://github.com/digitalbazaar/jsonld-signatures>

Version

7.0.0

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Description

An implementation of the Linked Data Signatures specification for JSON-LD, for Node.js and browsers.

A Linked Data Signature proof is created (or verified) by specifying a signature suite and a proof purpose.

The signature suite performs the cryptographic operation required to sign (or verify) a digital signature and includes information in a proof such as the `verificationMethod` identifier, the proof's `controller`, and the date the proof was created.

The proof purpose indicates why the proof was created and what its intended use is. This information can also be used to make sure that the `verificationMethod` was authorized for the stated purpose in the proof. Using a proof purpose helps to encourage people to authorize certain cryptographic keys (verification methods) for explicit purposes rather than granting them ambient authority. This approach can help prevent people from accidentally signing documents for reasons they did not intend.

This library provides base classes for signature suites and proof purposes so that custom extensions can be written. It also provides some commonly used proof purposes.

Project Name

multiformats

Github

<https://github.com/multiformats/js-multiformats>

Version

^9.9.0

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Description

This library defines common interfaces and low level building blocks for various interrelated multiformat technologies (multicodec, multihash, multibase, and CID). They can be used to implement custom base encoders / decoders / codecs, codec encoders /decoders and multihash hashers that comply to the interface that layers above assume.

Project Name

pako

Github

<https://github.com/nodeca/pako>

Version

^2.1.0

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Description

zlib port to javascript, very fast!

Why pako is cool:

- Results are binary equal to well known zlib (now contains ported zlib v1.2.8).
- Almost as fast in modern JS engines as C implementation (see benchmarks).
- Works in browsers, you can browserify any separate component.

Project Name

tslib

Github

<https://github.com/Microsoft/tslib>

Version

^2.3.0

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Description

This is a runtime library for [TypeScript](#) that contains all of the TypeScript helper functions.

Project Name

universal-base64url

Github

<https://github.com/blakeembrey/universal-base64url>

Version

^1.1.0

License

Apache 2.0

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Description

Small universal [base64url](#) functions for node.js and browsers. This is a small wrapper
around [universal-base64](#) to support URL-safe base64 in node.js and
browsers.

Project Name

uuid

Github

<https://github.com/uuidjs/uuid>

Version

^10.0.0

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Description

For the creation of [RFC9562](#) (formerly [RFC4122](#)) UUIDs

- Complete - Support for all RFC9562 UUID versions
- Cross-platform - Support for...
 - [Typescript](#)
 - [Chrome, Safari, Firefox, and Edge](#)
 - [NodeJS](#)
 - [React Native / Expo](#)
- Secure - Uses modern crypto API for random values
- Compact - Zero-dependency, [tree-shakable](#)
- CLI - [uuid command line](#) utility

Project Name

web-did-resolver

Github

<https://github.com/decentralized-identity/web-did-resolver>

Version

^2.0.27

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Apache-2.0

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Description

This library is intended to represent domains accessed through https as [Decentralized Identifiers](#) and retrieve an associated [DID Document](#)

It supports the proposed [did:web method spec](#) from the [W3C Credentials Community Group](#).

It requires the did-resolver library, which is the primary interface for resolving DIDs.

Project Name

yargs

Github

<https://github.com/yargs/yargs>

Version

^17.7.2

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Description

Yargs helps you build interactive command line tools, by parsing arguments and generating an elegant user interface.

It gives you:

- commands and (grouped) options (my-program.js serve --port=5000).
- a dynamically generated help menu based on your arguments:

