ST_InformationDisclosure Documentation

xiazy

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Entity Information

Basic information of a company or an entity should include following information If you use invoke function getDocument(), it should return bytes that contain a json object

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```
{
    "EntityName":"RegTech",
    "TokenName":"Ethereum",
    "TokenShortName":"ETH",
    "LegalRepresentative":"The name of legal representative",
    "Address":"The registered address of the entity"
```

"Contact": "the email or phone of entity "

JSON schema

}

```
{
    "$schema": "http://weiresearch.com/draft-021/schema#",
    "type": "object",
        "properties": {
            "EntityName": {
                "type": "string"
            },
            "TokenName": {
                  "type": "string"
            },
            //// (additional additional additionadditional additional additional additional additional addite
```

```
"TokenShortName": {
                        "type": "string"
                },
                "LegalRepresentative": {
                       "type": "string"
                },
                "Address": {
                       "type": "string"
                },
                "Contact": {
                       "type": "string"
                }
       },
        "required": [
                "EntityName",
                "TokenName",
                "TokenShortName",
                "LegalRepresentative",
                "Address",
                "Contact"
       ]
}
```

Cryptocurrency Exchange

Cryptocurrency exchange information show the initial plan of distribution for the security token If you use invoke function getDocument(), it should return bytes that contain a json object

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- Token
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{

JSON schema

```
{
 "$schema": "http://weiresearch.com/draft-021/schema#",
 "type": "object",
 "properties": {
        "CryptocurrencyExchange": {
         "type": "array",
          "items": [
                {
                  "type": "string"
                },
                {
                  "type": "string"
                },
                {
                  "type": "string"
                }
         ]
        },
        "Established": {
         "type": "string"
        },
        "CrowdfundTime": {
         "type": "string"
        },
        "MainProductsServices": {
         "type": "string"
        },
        "TotalNumber": {
         "type": "integer"
        },
        "ControllingShareholder": {
         "type": "array",
          "items": [
               {
                  "type": "string"
                },
                {
                  "type": "string"
                },
                {
                  "type": "string"
                }
         ]
        },
        "TheActualController": {
         "type": "array",
          "items": [
                {
                  "type": "string"
                },
                {
                  "type": "string"
                },
                {
                  "type": "string"
                }
          ]
```

```
},
        "UnifiedSocialCreditCode": {
         "type": "string"
        },
        "RegisteredCapital": {
         "type": "object",
          "properties": {
                "Number": {
                  "type": "integer"
                },
                "Currency": {
                  "type": "string"
                }
          },
          "required": [
                "Number",
                "Currency"
          ]
        }
 },
 "required": [
        "CryptocurrencyExchange",
        "Established",
        "CrowdfundTime",
        "MainProductsServices",
        "TotalNumber",
        "ControllingShareholder",
        "TheActualController",
        "UnifiedSocialCreditCode",
        "RegisteredCapital"
 ]
}
```

Profitability

#

- Operating income is similar to a company's earnings before interest and taxes (EBIT) and is also referred to as the operating profit or recurring profit. The one big difference between operating income and EBIT is that EBIT includes any non-operating income the company generates
- Gross profit is the profit a company makes after deducting the costs associated with making and selling its products, or the costs associated with providing its services. Gross profit will appear on a company's income statement, and can be calculated with this formula: Gross profit = Revenue
- NetProfit

```
Profitability
{
    "StartDate": "2018-01-01",
    "EndDate": "2019-01-01",
    "Currency": "USD",
    "OperatingIncome": 100000.0000,
    "GrossProfit": 100000.0000,
    "NetProfit": 100000.0000
```

##

}

- Cash and cash equivalents
- Accounts receivable refers to the outstanding invoices a company has or the money clients owe the company. The phrase refers to accounts a business has a right to receive because it has delivered a product or service
- Inventory
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- •

##

Construction Work-in-Progress is a long-term asset account in which the costs of constructing long-term assets are recorded. The account Construction Work-in-Progress will have a debit balance and will be reported on the balance sheet as part of a company's Property, Plant and Equipment.

- •
- •
- **##** Shareholders' equity is the net amount of a company's total assets and total liabilities, which are listed on a company's balance sheet. In part, shareholders' equity shows how much of a company's operations is financed by equity. Shareholders' equity is the net amount of a company's total assets and total liabilities, which are listed on a company's balance sheet. In part, shareholders' equity shows how much of a company's operations is financed by equity.

```
Solvency
{
        "Currency": "USD",
        "StartDate": "2018-01-01",
        "EndDate": "2019-01-01",
        "Assets": {
                "TotalAssets": 100000.0000.
                "CashAndCashEquivalents": 100000.0000,
                "AccountsReceivable": 100000.0000,
                "Inventory": 100000.0000,
                "Long-termEquityInvestment": 100000.0000,
                "FixedAssets": 100000.0000,
                "AvailableForSaleFinancialAssets": 100000.0000
        },
        "Liabilities": {
                "TotalLiabilities": 100000.0000,
                "ConstructionInProgress": 100000.0000,
                "ShortTermLoan": 100000.0000,
                "LongTermLoan": 100000.0000
        },
        "ShareholdersEquity": 100000.0000
}
```

Schema

```
{
   "$schema": "http://weiresearch.com/draft-021/schema#",
   "type": "object",
   "properties": {
        "Currency": {
            "type": "string"
        },
        "StartDate": {
            "type": "string"
        },
        "EndDate": {
            "type": "string"
        },
        "EndDate": {
            "type": "string"
        },
        "Assets": {
            "type": "object",
        }
    }
},
```

```
"properties": {
        "TotalAssets": {
          "type": "number"
        },
        "CashAndCashEquivalents": {
          "type": "number"
        },
        "AccountsReceivable": {
          "type": "number"
        },
        "Inventory": {
          "type": "number"
        },
        "Long-termEquityInvestment": {
          "type": "number"
        },
        "FixedAssets": {
          "type": "number"
        },
        "AvailableForSaleFinancialAssets": {
          "type": "number"
        }
 },
  "required": [
        "TotalAssets",
        "CashAndCashEquivalents",
        "AccountsReceivable",
        "Inventory",
        "Long-termEquityInvestment",
        "FixedAssets",
        "AvailableForSaleFinancialAssets"
 ]
},
"Liabilities": {
 "type": "object",
 "properties": {
        "TotalLiabilities": {
          "type": "number"
        },
        "ConstructionInProgress": {
          "type": "number"
        },
        "ShortTermLoan": {
          "type": "number"
        },
        "LongTermLoan": {
          "type": "number"
        }
 },
  "required": [
        "TotalLiabilities",
        "ConstructionInProgress",
        "ShortTermLoan",
        "LongTermLoan"
 1
},
"ShareholdersEquity": {
```

```
"type": "number"
}
},
"required": [
    "Currency",
    "StartDate",
    "EndDate",
    "Assets",
    "Liabilities",
    "ShareholdersEquity"
]
}
```

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Operational situation

```
{
    "Currency": "USD",
    "StartDate": "2018-01-01",
    "EndDate": "2019-01-01",
    "ProfitComposition": {
        "OperatingIncome": 100000.0000,
        "OperatingCost": 100000.0000,
        "GrossProfit": 100000.0000,
        "ManagementCosts": 100000.0000,
        "SalesExpense": 100000.0000,
        "FinancialExpensess": 100000.0000,
        "OperatingProfit": 100000.0000,
        "Non-operatingIncome": 100000.0000,
        "Non-operatingIncom
```

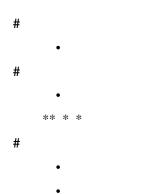
```
"OperatingExpenses": 100000.0000,
    "NetProfit": 100000.0000
},
"IncomeComposition": {
    "MainBusinessIncome": 100000.0000,
    "OtherOperatingIncome": 100000.0000
},
"CashFlowStatus": {
    "NetCashFlowFromOperatingActivities": 100000.0000,
    "NetCashFlowsFromInvestingActivities": 100000.0000,
    "NetCashFlowFromFinancingActivities": 100000.0000
}
```

JSON Schema

```
{
"$schema": "http://weiresearch.com/draft-021/schema#",
"type": "object",
"properties": {
       "ProfitComposition": {
         "type": "object",
         "properties": {
               "OperatingIncome": {
                 "type": "number"
               },
               "OperatingCost": {
                 "type": "number"
               },
               "GrossProfit": {
                 "type": "number"
               },
               "ManagementCosts": {
                "type": "number"
               },
               "SalesExpense": {
                 "type": "number"
               },
               "FinancialExpenses": {
                 "type": "number"
               },
               "OperatingProfit": {
                 "type": "number"
               },
               "Non-operatingIncome": {
                 "type": "number"
               },
               "OperatingExpenses": {
                 "type": "number"
               },
               "NetProfit": {
                 "type": "number"
               }
         },
         "required": [
               "OperatingIncome",
               "OperatingCost",
```

```
"GrossProfit",
               "ManagementCosts",
               "SalesExpense",
               "FinancialExpenses",
               "OperatingProfit",
               "Non-operatingIncome",
               "OperatingExpenses",
               "NetProfit"
         ]
       },
       "IncomeComposition": {
         "type": "object",
         "properties": {
               "MainBusinessIncome": {
                 "type": "number"
               },
               "OtherOperatingIncome": {
                 "type": "number"
               }
         },
         "required": [
               "MainBusinessIncome",
               "OtherOperatingIncome"
         ]
       },
       "CashFlowStatus": {
         "type": "object",
         "properties": {
               "NetCashFlowFromOperatingActivities": {
                "type": "number"
               },
               "NetCashFlowsFromInvestingActivities": {
                "type": "number"
               },
               "NetCashFlowFromFinancingActivities": {
                 "type": "number"
               }
         },
         "required": [
               "NetCashFlowFromOperatingActivities",
               "NetCashFlowsFromInvestingActivities",
               "NetCashFlowFromFinancingActivities"
         ]
       }
},
"required": [
       "ProfitComposition",
       "IncomeComposition",
       "CashFlowStatus"
]
}
```

Management Information



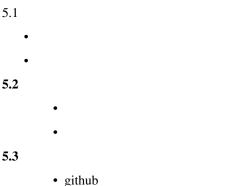
Litigations

```
litigation
{
    "litigations": [{
        "name": "",
        "date": "2018-08-08",
        "uri": "http://legal.org/information/?id=1234"
        },
        {
            "name": "",
                "date": "2018-09-09",
                "uri": "http://legal.org/information/?id=5678"
        }
    ]
}
```

```
{
```

```
},
                        "uri": {
                          "type": "string"
                        }
                  },
                  "required": [
                       "name",
                        "date",
                        "uri"
                  ]
                },
                {
                  "type": "object",
                  "properties": {
                        "name": {
                         "type": "string"
                        },
                        "date": {
                         "type": "string"
                        },
                        "uri": {
                         "type": "string"
                        }
                  },
                  "required": [
                        "name",
                        "date",
                        "uri"
                  ]
                }
         ]
       }
 },
 "required": [
       "litigations"
 ]
}
```

Annoucements



```
    fork
```

```
{
       "version": "https://jsonfeed.org/version/1",
       "title": "The Shape of Everything",
       "home_page_url": "http://shapeof.com/",
       "feed_url": "http://shapeof.com/feed.json",
       "description": "A website mostly about Mac stuff, written by Gus Mueller",
        "author": {
                "name": "Gus Mueller"
       },
        "items": [
                {
                        "id": "http://shapeof.com/archives/2018/11/subethaedit_goes_
→open_source.html",
                        "title": "SubEthaEdit Goes Open Source",
                        "content_html": "Dominik Wagner: <a href=\"https://rant.</pre>
→monkeydom.de/posts/2018/11/28/see-is-back\">SubEthaEdit 5 - Now free and open_
\rightarrowsource!</a>\mathbf{n}It's story time.\mathbf{n}Way back in 2003, when <a href=\mathbf{n}
→"https://subethaedit.net\">SubEthaEdit</a> was still called Hydra, it <a href=\
→"https://www.macworld.com/article/1025343/innovators.html\">won a roundcommenters.page)
→OS X Innovators Contest</a> from O&#39;Reilly. My app at the time, <a href=\"https:/
↔/www.voodoopad.com\">VoodooPad</a> (now owned by Primate Labs), also won a place in
→the contest. <a href=\"https://www.rogueamoeba.com/audiohijack/\">Audio Hijack Pro<
\rightarrowa> also made an appearance as a runner up to VoodooPad.\nBecause of
-international and political reasons, VoodooPad got first place with an award of a
→premier level membership to Apple's developer program. This was a pretty big_
```

	"date_published": "2018-11-28T10:23:02-08:00",			
	"url": "http://shapeof.com/archives/2018/11/subethaedit_goes_			
⇔open_source.html"				
},				
{				
	"id": "http://shapeof.com/archives/2019/1/blown_out_curves.			
⇔html",				
	"title": "Blown Out Curves",			
	<pre>"content_html": "I was working on a bug in Acorn yesterday_</pre>			
	r, and I noticed that when pushing the green channel to_			
\leftrightarrow extremes that it became pretty blown out. While first looking at the filtered image.				
_	might be right but maybe it wasn't? So I threw a_			
	ck of my head to compare what Curves in Acorn is doing versus			
-	$\nAnd then when was I knee deep in actually fixing the$			
	zed there was a better way of creating the LUT (lookup table)			
\rightarrow from the curves data and that idea just kind of stuck in my head as well.				
→So after fixing some last minute sandboxing issues for Acorn 6.3 today (it's				
→ always the sandbox!) and submitting it to Apple, I decided to look into.				
\rightarrow these two curves things.\nTurns out that my idea for creating the LUT also				
→ fixed the blown out colors bug.\n <center><a href='\"https://shapeof.com/archives/</td'></center>				
→2019/media/blown_out_curves.jpeg\"> <img src='\"https://shapeof.com/archives/2019/</td'/>				
→media/blown_out_curves.jpeg\" width=\"640\" alt=\"Blown out curves.\" border=\"0\"/>				
→ > (click to embiggen) \n\n				
-	↔ The left window in this screenshot is the original image. The middle image is_			
→what is shipping in Acorn 6.3 and earlier. And finally we have the fixed version_				
\rightarrow (aka, Acorn 6.3.1, which hasn't left my Mac yet). You can see the whites and \rightarrow the yellows not mixing very well when compared to the fixed version. And finally,				
-	the right is what the green channel was set to, so you can see			
	g it.\nIt's always delightful when things come_			
→together like this. </td <td></td>				
, cogeener rine enre, ,	"date_published": "2019-01-04T14:05:59-08:00",			
	"url": "http://shapeof.com/archives/2019/1/blown_out_curves.			
⇔html"				
}				
]				
}				

JSON Schema

```
ł
        "version": "https://jsonfeed.org/version/1",
        "user_comment": "This is a podcast feed. You can add this feed to your.
→podcast client using the following URL: http://therecord.co/feed.json",
        "title": "The Record",
        "home_page_url": "http://therecord.co/",
        "feed_url": "http://therecord.co/feed.json",
        "items": [
                {
                        "id": "http://therecord.co/chris-parrish",
                        "title": "Special #1 - Chris Parrish",
                        "url": "http://therecord.co/chris-parrish",
                        "content_text": "Chris has worked at Adobe and as a founder_
→of Roque Sheep, which won an Apple Design Award for Postage. Chris's new company is.
→Aged & Distilled with Guy English -- which shipped Napkin, a Mac app for visual.
→collaboration. Chris is also the co-host of The Record. He lives on Bainbridge.
→Island, a quick ferry ride from Seattle.",
                        "content_html": "Chris has worked at <a href=\"http://adobe.</pre>
\rightarrow \text{com}/\ >Adobe</a> and as a founder of Rogue Sheep, which won an Apple Deprime page)
-- for Postage. Chris's new company is Aged & Distilled with Guy English -- which,
  shipped <a href=\"http://aged-and-distilled.com/napkin/\">Nap
18 visual collaboration. Chris is also the co-host of The Record Chapter 6. Annoucements
→"http://www.ci.bainbridge-isl.wa.us/\">Bainbridge Island</a>, a quick ferry ride.
→from Seattle.",
```

Interface Draft

eip: title: Base on International Financial Reporting Standards to do information diclosure author: xiazy@weiresearch discussions-to: # status: Draft type: Standards Track category: ERC created: 2018-12-28 require: None

Simple Summary

This standard sits under the ERC-1400 (#1411) umbrella set of standards related to security tokens.

Provides a standard to support information disclosure on tokens.

Abstract

Allows information of token issue entity information be disclosed for investers.

Motivation

Since security tokens are subject to regulatory and legal oversight (the details of which will vary depending on jurisdiction, regulatory framework and underlying asset)

Investors need a easy way to check financial report, management team, and litigation report of the company or the entity.

Requirements

See ERC-1400 or ERC-20 for a full set of requirements across the library of standards.

The following requirements have been compiled following discussions with parties across the Security Token ecosystem.

• MUST be able to perform forced transfer for legal action or fund recovery.

Rationale

Investors can continue to check updated information on the issuer. The invested company or organization is obliged to disclose its true information in a timely manner.

Specification

This standard will try to meet the legal information disclosure system in different countries.

hasBasicInformation

This function return false means no legal representive or organization register information available. return true means invoke function getBasicaInformation() will return related information

` solidity function function has BasicInformation() external view returns (bool) `

hasFinancialReport

This function return false means no financial report available. return true means invoke function getFinancialReport() will return related information

` solidity function hasFinancialReport() external view returns (bool) `

hasManagementReport

This function return false means no management report available. return true means invoke function getManagement() will return related information

` solidity function hasManagementReport() external view returns (bool) `

hasLitigationDisclosure

This function return false means no litigation information available. return true means invoke function getLitigation-Report() will return related information

` solidity function getLitigationReport() external view returns (bool) `

hasLitigationDisclosure

This function return false means no litigation information available. return true means invoke function getLitigation-Report() will return related information

` solidity function getLitigationReport() external view returns (bool) `

hasLitigationDisclosure

This function return false means no litigation information available. return true means invoke function getLitigation-Report() will return related information

` solidity function getLitigationReport() external view returns (bool) `

setBasicaInformation

Used to attach a organization document the contract, or update the URI or hash of an existing attached document.

setBasicaInformation MUST throw if the document is not successfully stored.

setBasicaInformation MUST emit a DocumentUpdated event with details of the document being attached or modified.

` solidity function setBasicaInformation(bytes32 _name, string _uri, bytes32 _documentHash) external; `

getBasicaInformation

Used to return the details of a document with a known name (bytes32). Returns the URI associated with the document (string), the hash (of the contents) of the document (bytes32), and the timestamp at which the document was last modified via setFinancialReport (uint256).

```
` solidity function getBasicaInformation(bytes32 _name, string _uri, bytes32 _documentHash) external; `
```

setFinancialReport

Used to attach a new financial report to the contract, or update the URI or hash of an existing attached document.

setFinancialReport MUST throw if the document is not successfully stored.

setFinancialReport MUST emit a DocumentUpdated event with details of the document being attached or modified.

```
` solidity function setFinancialReport(bytes32 _name, string _uri, bytes32 _documentHash) external; `
```

getFinancialReport

Used to return the details of a document with a known name (bytes32). Returns the URI associated with the document (string), the hash (of the contents) of the document (bytes32), and the timestamp at which the document was last modified via setFinancialReport (uint256).

```
` solidity function getFinancialReport(bytes32 _name, string _uri, bytes32 _documentHash) external; `
```

setManagementReport

Used to attach a new management report to the contract, or update the URI or hash of an existing attached document.

setManagementReport MUST throw if the document is not successfully stored.

setManagementReport MUST emit a DocumentUpdated event with details of the document being attached or modified.

```
` solidity function setManagementReport(bytes32 _name, string _uri, bytes32 _documentHash) external; `
```

getManagementReport

Used to return the details of a document with a known name (bytes32). Returns the URI associated with the document (string), the hash (of the contents) of the document (bytes32), and the timestamp at which the document was last modified via setManagementReport (uint256).

```
` solidity function ManagementReport(bytes32 _name, string _uri, bytes32 _documentHash) external; `
```

setLitigationReport

Used to attach a new iltigation report to the contract, or update the URI or hash of an existing attached document.

LitigationReport MUST throw if the document is not successfully stored.

LitigationReport MUST emit a DocumentUpdated event with details of the document being attached or modified.

```
` solidity function LitigationReport(bytes32 _name, string _uri, bytes32 _documentHash) external; `
```

getLitigationReport

Used to return the details of a document with a known name (bytes32). Returns the URI associated with the document (string), the hash (of the contents) of the document (bytes32), and the timestamp at which the document was last modified via setFinancialReport (uint256).

```
` solidity function getLitigationReport(bytes32 _name, string _uri, bytes32
_documentHash) external; `
```

isControllable

In order to provide transparency over whether *controllerTransfer / controllerRedeem* are useable, the function *isControllable* can be used.

If a token returns FALSE for *isControllable()* then it MUST:

- always return FALSE in the future.
- controllerTransfer must revert
- controllerRedeem must revert

In other words, if an issuer sets *isControllable* to return FALSE, then there can be no further controller transactions for this token contract. *controllerRedeem* MUST emit a *ControllerRedemption* event. ` solidity function isControllable() external view returns (bool); `

Interface

/// @title International Financial Reporting Standards, information (part of the ERC1400 Security Token Standards) /// @dev See https://github.com/SecurityTokenStandard/EIP-Spec /// Reference https://www.growthforce.com/blog/ financial-reports-management-reports-differences

interface IERCxxxx is IERC20 {

// Regular Operation function hasBasicInformation() external view returns (bool);

// Profit and Loss Statement

// Balance Sheet // Accounts Payable // Accounts Receivable // Statement of Cash Flows

function hasFinancialReport() external view returns (bool);

// Optional // Profit and Loss by Class // Department

// Team // Job // Realization Rate // Utilization Rate

function hasManagementReport() external view returns (bool);

// Optional // pending // completed function hasLitigationDisclosure() external view returns
(bool);

function setBasicaInformation(bytes32 _name, string _uri, bytes32 _documentHash) external;

// Document Management function getBasicaInformation(bytes32 _name) external view returns (string, bytes32, uint256);

function setBasicaInformation(bytes32 _name, string _uri, bytes32 _documentHash) external;

// Document Management function getBasicaInformation(bytes32 _name) external view returns (string, bytes32, uint256);

function setFinancialReport(bytes32 _name, string _uri, bytes32 _documentHash) external;

// Document Management function getFinancialReport(bytes32 _name) external view returns (string, bytes32, uint256);

function setManagementReport(bytes32 _name, string _uri, bytes32 _documentHash) external;

// Document Management function getManagementReport(bytes32 _name) external view returns (string, bytes32, uint256);

function setLitigationReport(bytes32 _name, string _uri, bytes32 _documentHash) external;

// Document Management function getLitigationReport(bytes32 _name) external view returns (string, bytes32, uint256);

}

References - [EIP 1400: Security Token Standard With Partitions](https://github.com/ethereum/EIPs/issues/1411)
- [EIP Draft](https://github.com/SecurityTokenStandard/EIP-Spec)

genindex

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4. 4.1

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5. 5.1

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5.2

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5.3

- github
- fork