

## DigixCore 2.0 Components and Libraries (The Lego Pieces) - Updated 1st Jan 2018

Component	Description	Dependencies	Status	Medium Post that is relevant to each component
<b>Digix Directory (needs UI)</b>	Solidity based contract for managing accounts, roles, and groups in the DigixCore platform. Each role defines valid state machine actions that can be taken on digix gold assets.	CDAP, solidity-collections	Completed	New
<b>Digix Trusted Price Oracle (DTPO)</b>	Ruby on Rails based microservice to provide trusted price feeds to Marketplace contracts	ruby-eth (vault fork)	Completed	<a href="https://keepingstock.net/dev-update-31st-july-2017-540eb57aea31">https://keepingstock.net/dev-update-31st-july-2017-540eb57aea31</a>
<b>Product Catalog (needs UI)</b>	Solidity based catalog contract containing a database of allowed Digix Gold products (refinery and bars)	CACP, Digix Directory, solidity-collections	Completed	New
<b>Assets Explorer (needs UI)</b>	Solidity based contract that allows end users to list all of the registered gold bars in the system. This is also the UI that allows users to	Digix Directory, CACP, solidity-collections	Completed	<a href="https://medium.com/@Digix/digix-dev-update-22-august-2017-16ecf07f6665">https://medium.com/@Digix/digix-dev-update-22-august-2017-16ecf07f6665</a>

	recast their gold tokens into gold bars			
<b>Assets Storage</b>	Solidity based storage contract that stores details about registered gold bars, their status, as well as other information.	Digix Directory, CACP, solidity-collections, solidity-state-machine	Completed	Core 2.0 related posts/spectrum related posts/statemachine posts/collections library
<b>Digix Admin (needs UI)</b>	Solidity based interactive contract for managing the system including transaction fees, demurrage fees, global values, and access control.	CACP, solidity-collections	Completed	Core 2.0 related posts/spectrum related posts/statemachine posts/collections library
<b>PoA Interactive (needs UI)</b>	Solidity based interactive contract for authorized roles to manage the entire PoA Lifecycle	Solidity-collections, CACP, Digix Directory	Completed	Core 2.0 related posts/spectrum related posts/statemachine posts/collections library
<b>Marketplace (needs UI)</b>	Solidity based interactive contract allowing approved users to purchase DGX tokens directly from Ether.	CACP, ERC20 Token Standard	Completed + UI Completed	<a href="https://medium.com/@Digix/digix-dev-update-22-august-2017-16ecf07f6665">https://medium.com/@Digix/digix-dev-update-22-august-2017-16ecf07f6665</a>
<b>Marketplace Service</b>	Solidity based service contract that verifies DTPO signed price data.	CACP, ERC20 Token Standard, DTPO signature algorithm	Completed	Price oracle related posts

<b>DGX Tokens (needs UI)</b>	The Digix Gold tokens. 1 token = 1 gram divisible up to 1 nanogram unit.	DigixMath (demurrage and TX fee calculation), ERC20 Token Standard, Statemachine	Completed + UI Completed	<a href="https://medium.com/@Digix/digix-dev-update-10th-july-2017-ab6838fae2c3">https://medium.com/@Digix/digix-dev-update-10th-july-2017-ab6838fae2c3</a>
<b>Digix Pricefeed</b>	Rails based application that publishes nonce and block number locked price data for Marketplace	DTPO signature algorithm, ruby on rails	Completed	<a href="https://medium.com/@Digix/digix-dev-update-17th-july-2017-6997918d0dcd">https://medium.com/@Digix/digix-dev-update-17th-july-2017-6997918d0dcd</a>
<b>Spectrum</b>	Frontend for Digix Contracts UI	Web3-redux, redux-priceticker, react-ledger-container, Dijix, Digix Contracts	Ready + Ongoing Roadmap	<a href="https://medium.com/@Digix/spectrums-significance-to-dgx-2-0-6f4f39cd47ab">https://medium.com/@Digix/spectrums-significance-to-dgx-2-0-6f4f39cd47ab</a>
<b>Doxity</b>	Solidity Documentation Generator		Completed	<a href="https://medium.com/@Digix/digix-dev-tool-release-doxity-429f545ff46c">https://medium.com/@Digix/digix-dev-tool-release-doxity-429f545ff46c</a>
<b>Dijix + Plugins</b>	Immutable File Format	dijix-image, dijix-pdf, dijix-attestation, dijix-pinning-plugin	Completed	<a href="https://hackernoon.com/digix-dev-update-12-sept-2017-a81e00b5b5a5">https://hackernoon.com/digix-dev-update-12-sept-2017-a81e00b5b5a5</a>
<b>Misc CLI tools + Scripts</b>	Command line tools for batch processing of DGX assets and PoA.	Dijix, poa-genesis, truffle-lightwallet-provider, sigmate, ipfs-pinning-registry, tempo, web3-console	Completed	<a href="https://medium.com/@Digix/digix-dev-tool-release-tempo-f78d03aaae4e">https://medium.com/@Digix/digix-dev-tool-release-tempo-f78d03aaae4e</a>  <a href="https://medium.com/@Digix/digix-dev-tool-release">https://medium.com/@Digix/digix-dev-tool-release</a>

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## Unit Testing Status

Component	Test Coverage	Description	
<b>Solidity Core Libraries</b>	100%	Common math functions such as demurrage calculation and TX fee calculation	<a href="https://medium.com/@Digix/dev-updates-c940e5203c9d">https://medium.com/@Digix/dev-updates-c940e5203c9d</a>
<b>CACP Contracts</b>	100%	Contracts to allow service oriented architecture of Solidity contracts for modularity and upgradeability	<a href="https://medium.com/@Digix/digix-dev-update-22-august-2017-16ecf07f6665">https://medium.com/@Digix/digix-dev-update-22-august-2017-16ecf07f6665</a>
<b>Solidity State machine</b>	100%	Role based rules engine	<a href="https://medium.com/@Digix/dev-updates-c940e5203c9d">https://medium.com/@Digix/dev-updates-c940e5203c9d</a>
<b>Contract Directory Access Protocol (CDAP)</b>	100%	Allows us to define Groups, Roles, and Users that can be used in statemachine, and other access control. CDAP Service allows us to resolve an address to their group and role.	
<b>Solidity Collections Library</b>	100%	Doubly Linked List with CACP based pagination support, open sourced	<a href="https://medium.com/@Digix/digix-dev-update-6th-sept-2017-a49a7c7078ba">https://medium.com/@Digix/digix-dev-update-6th-sept-2017-a49a7c7078ba</a>
<b>Core2</b>	100%	The entire lego project	<a href="https://medium.com/@Digix/digix-dev-update-aug-29-2017-274f10ee0d8f">https://medium.com/@Digix/digix-dev-update-aug-29-2017-274f10ee0d8f</a>

<b>Marketplace</b>	100%	Solidity contracts that allow the swapping of Ether to DGX gold based on the Digix Trusted Price Oracle, KYC	<a href="https://medium.com/@Digix/digix-dev-update-24th-july-201-3dc1e2f1455">https://medium.com/@Digix/digix-dev-update-24th-july-201-3dc1e2f1455</a>
<b>Marketplace Service</b>	100%	Solidity service contract to verify DTPO prices	

**Repositories (some are private):**

- <https://github.com/digixglobal/solidity-core-libraries>
- <https://github.com/digixglobal/cacp-contracts>
- <https://github.com/digixglobal/solidity-statemachine-library>
- <https://github.com/digixglobal/ruby-eth>
- <https://github.com/DigixGlobal/cdap>
- <https://github.com/DigixGlobal/solidity-collections-library>
- <https://github.com/DigixHoldings/core2>