## ENTERPRISE ETHEREUM ARCHITECTURE STACK

### APPLICATION
- **DAPPs**: Applications, Explorers, Monitoring & Business Intelligence, Crosschain DAPP
- **INFRA CONTRACTS & STANDARDS**: Token Standards, Identity Services, Ethereum Name Service, Permissioning Contracts, Crosschain Smart Contract
- **SMART CONTRACT TOOLS**: Smart Contract Languages, Developer Tools, Security Analysis and Audits, Formal Verification, Multichain Contract Tools

### TOOLING
- **CREDENTIAL MANAGEMENT**: Wallets, Key Management, Hardware Security Manager, Multichain Identity
- **INTEGRATION & DEPLOYMENT TOOLS**: Integration Libraries, Enterprise Management Systems, Crosschain Deployment
- **CLIENT INTERFACES / APIs**: JSON-RPC, Inter-Chain

### ENTERPRISE 3 P's
- **PRIVACY**: On-Chain, Off-Chain / Trusted Compute, Private Transactions, Privacy Zone
- **PERFORMANCE**: On-Chain Optimization, Off-Chain Computing, Off-Chain / Trusted Compute, Managed Finality
- **PERMISSIONING**: Organization Registry, Client Whitelist, Permission Checks, Zoned Permission

### CORE BLOCKCHAIN
- **STORAGE/LEDGER**: On-Chain Public State, On-Chain Storage, Off-Chain Storage, On-Chain Private State, Partitioned Storage
- **EXECUTION**: EVM, Sync, Precompiled Contracts, Trusted Compute, Crosschain Trust, Crosschain Atomic TX
- **CONSENSUS**: Proof of Work, Proof of Authority, BFT Algorithms, Mixed Consensus

### NETWORK
- **NETWORK PROTOCOL**: DevP2P, Restricted Private Transaction Sharing, Chain Identity

### LEGEND
- Yellow Paper
- Public Ethereum
- Application Layer
- Enterprise Ethereum
- EEA Crosschain

All Yellow Paper, Public Ethereum, and Application Layer components may be extended for Enterprise Ethereum as required.

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