// SPDX-License-Identifier: MIT

pragma solidity ^0.8.20;

/// @title ISyncClient - Interface for Web3 Sync Client Engine (FatherTime SDKP Compliant)

interface ISyncClient {

/// @notice Initialize client with core settings

/// @param core Address of core controller (e.g., main contract or service)

function init(address core) external;

/// @notice Get a message string to be signed for verification

function getMessage(address account) external view returns (string memory);

/// @notice Register an account using signature

function register(address account, bytes calldata signature) external;

/// @notice Check if account is already registered

function isRegistered(address account) external view returns (bool);

/// @notice Create a new store for an account

function create(address account, string calldata store) external;

/// @notice Set a key-value pair in a store

function set(

address account,

string calldata store,

string calldata key,

string calldata value

) external returns (bool);

/// @notice Delete a key from a store

function del(

address account,

string calldata store,

string calldata key

) external returns (bool);

/// @notice Get all stores associated with an account

function getStores(address account) external view returns (string[] memory);

/// @notice Emitted when a store is updated

event SyncUpdate(

address indexed account,

string store,

string key,

string value,

uint256 timestamp

);

}