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// found in the LICENSE file.

#ifndef FLUTTER\_SHELL\_PLATFORM\_COMMON\_CLIENT\_WRAPPER\_INCLUDE\_FLUTTER\_STANDARD\_METHOD\_CODEC\_H\_

#define FLUTTER\_SHELL\_PLATFORM\_COMMON\_CLIENT\_WRAPPER\_INCLUDE\_FLUTTER\_STANDARD\_METHOD\_CODEC\_H\_

#include <memory>

#include "encodable\_value.h"

#include "method\_call.h"

#include "method\_codec.h"

#include "standard\_codec\_serializer.h"

namespace flutter {

// An implementation of MethodCodec that uses a binary serialization.

class StandardMethodCodec : public MethodCodec<EncodableValue> {

public:

// Returns an instance of the codec, optionally using a custom serializer to

// add support for more types.

//

// If provided, |serializer| must be long-lived. If no serializer is provided,

// the default will be used.

//

// The instance returned for a given |extension| will be shared, and

// any instance returned from this will be long-lived, and can be safely

// passed to, e.g., channel constructors.

static const StandardMethodCodec& GetInstance(

const StandardCodecSerializer\* serializer = nullptr);

~StandardMethodCodec();

// Prevent copying.

StandardMethodCodec(StandardMethodCodec const&) = delete;

StandardMethodCodec& operator=(StandardMethodCodec const&) = delete;

protected:

// |flutter::MethodCodec|

std::unique\_ptr<MethodCall<EncodableValue>> DecodeMethodCallInternal(

const uint8\_t\* message,

size\_t message\_size) const override;

// |flutter::MethodCodec|

std::unique\_ptr<std::vector<uint8\_t>> EncodeMethodCallInternal(

const MethodCall<EncodableValue>& method\_call) const override;

// |flutter::MethodCodec|

std::unique\_ptr<std::vector<uint8\_t>> EncodeSuccessEnvelopeInternal(

const EncodableValue\* result) const override;

// |flutter::MethodCodec|

std::unique\_ptr<std::vector<uint8\_t>> EncodeErrorEnvelopeInternal(

const std::string& error\_code,

const std::string& error\_message,

const EncodableValue\* error\_details) const override;

// |flutter::MethodCodec|

bool DecodeAndProcessResponseEnvelopeInternal(

const uint8\_t\* response,

size\_t response\_size,

MethodResult<EncodableValue>\* result) const override;

private:

// Instances should be obtained via GetInstance.

explicit StandardMethodCodec(const StandardCodecSerializer\* serializer);

const StandardCodecSerializer\* serializer\_;

};

} // namespace flutter

#endif // FLUTTER\_SHELL\_PLATFORM\_COMMON\_CLIENT\_WRAPPER\_INCLUDE\_FLUTTER\_STANDARD\_METHOD\_CODEC\_H\_