

Specification > Base Protocol > Messages

# Messages



**Protocol Revision:** 2024-11-05

All messages in MCP **MUST** follow the [JSON-RPC 2.0](#) specification. The protocol defines three types of messages:

## Requests

Requests are sent from the client to the server or vice versa.

```
{
  jsonrpc: "2.0";
  id: string | number;
  method: string;
  params?: {
    [key: string]: unknown;
  };
}
```

- Requests **MUST** include a string or integer ID.
- Unlike base JSON-RPC, the ID **MUST NOT** be `null`.
- The request ID **MUST NOT** have been previously used by the requestor within the same session.

## Responses

Responses are sent in reply to requests.

```
{
  jsonrpc: "2.0";
```

```
id: string | number;
result?: {
  [key: string]: unknown;
}
error?: {
  code: number;
  message: string;
  data?: unknown;
}
}
```

- Responses **MUST** include the same ID as the request they correspond to.
- Either a `result` or an `error` **MUST** be set. A response **MUST NOT** set both.
- Error codes **MUST** be integers.

## Notifications

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Notifications are sent from the client to the server or vice versa. They do not expect a response.

```
{
  jsonrpc: "2.0";
  method: string;
  params?: {
    [key: string]: unknown;
  };
}
```

- Notifications **MUST NOT** include an ID.