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Grafana Live Channel guide

Grafana Live is a PUB/SUB server, clients subscribe to channels to receive real-time updates published to those channels.

Channel structure

Channel is a string identifier. In Grafana channel consists of 3 parts delimited by /:

- Scope
- Namespace
- Path

For example, the channel **grafana/dashboard/xyz** has the scope **grafana**, namespace **dashboard**, and path **xyz**.

Scope, namespace and path can only have ASCII alphanumeric symbols (A-Z, a-z, 0-9), **_** (underscore) and **-** (dash) at the moment. The path part can additionally have **/**, **.** and **=** symbols. The meaning of scope, namespace and path is context-specific.

The maximum length of a channel is 160 symbols.

Scope determines the purpose of a channel in Grafana. For example, for data source plugin channels Grafana uses **ds** scope. For built-in features like dashboard edit notifications Grafana uses **grafana** scope.

Namespace has a different meaning depending on scope. For example, for **grafana** scope this could be a name of built-in real-time feature like **dashboard** (i.e. dashboards events).

The path, which is the final part of a channel, usually contains the identifier of some concrete resource such as the ID of a dashboard that a user is currently looking at. But a path can be anything.

Channels are lightweight and ephemeral - they are created automatically on user subscription and removed as soon as last user left a channel.

Data format

All data travelling over Live channels must be JSON-encoded.