



This PDF is generated from authoritative online content, and is provided for convenience only. This PDF cannot be used for legal purposes. For authoritative understanding of what is and is not supported, always use the online content. To copy code samples, always use the online content.

# Voice Callback and URS

## VCB Notification Structure

12/12/2025

---

## Contents

- 1 VCB Notification Structure
  - 1.1 For an ORS Instance
  - 1.2 For an URS Instance
  - 1.3 For a Generic HTTP Server

# VCB Notification Structure

A VCB notifiable call must have in its extensions the `notifyurl` key. This key, together with a few other optional extensions, controls the location and format for sending VCB notifications.

The additional keys are:

- `notifybody`
- `notifyenc`.

The logic for sending a VCB notification is as follows:

## For an ORS Instance

- If `notifyurl` starts with `ors://` then the entire `notifyurl` should be in the format, `ors://orsname/scxml/session/orssession/event/eventname[?params]`, and URS will try to send an event to the specified ORS and the specified session within it.
- If `notifyurl` starts with `ors:` then the entire `notifyurl` should be in the format, `ors:whatever/event/eventname[?params]`, and URS will try to send an event to the ORS node and the session associated with this VCB call.

In both the above cases, the optional `params` and `notifybody` can be provided.

- `params` should have the format of an URL encoded string of parameters.
- `notifybody` could either be an URL encoded string of parameters or a JSON string.

Their values if provided will be decoded first – any fragment in square brackets will be replaced with its actual value as given below:

[udata]	entire call attached data (& separated)
[udata.*]	entire call attached data (, separated)
[udata.key]	value of corresponding attached data
[udataj]	entire call attached data as JSON string
[ext]	all call extensions (& separated)
[ext.*]	all call extensions (, separated)
[ext.key]	value of corresponding extension key
[extj]	all call extensions as JSON string
[orssession]	ORS session ID if call has associated ORS session ID
[ors]	host:port of ORS node associated with this VCB call
[call.connid]	Connection ID of this VCB call

---

[call.uuid]	UUID of this VCB call
-------------	-----------------------

### For an URS Instance

- If `notifyurl` starts with `urs://` then the entire `notifyurl` should be in the format, `urs://ursname/message` and URS will try to send a command to the specified URS.
- If `notifyurl` starts with `urs:` then the entire `notifyurl` should be in the format, `urs:message` and the particular URS will try to send a command to itself.

In both cases, the command is effectively invoking the `RequestRouter` function (updated description in the [Supplement to the Universal Routing 8.1 Reference Manual](#)):

```
RequestRouter[ursname, message, notifybody, ","]
```

Both `message` and `notifybody` preliminary will be decoded as described above.

### For a Generic HTTP Server

In all other cases, URS will try to send a VCB notification as a REST HTTP message.

- `notifyurl` must be a valid URL.
- `notifybody` - If specified, URS will use POST message instead of GET message, and use `notifybody` as the content of this POST message.
- `notifyenc` - Used only if `notifybody` is present and will be used as the content of Content-Type header of the generated HTTP message.

Both `notifyurl` and `notifybody` preliminary will be decoded as described above.