Module management Console retrieving URLs from nodes

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| **Document Title** | Module management Console retrieving URLs from nodes |
| **Document Owner** | David Ellis |
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1. Brief Description

When a user wants to configure a node, for any node that supports this service, we want to be able to connect to a simple webserver on the node on a high bandwidth network connection (e.g. wifi). For which we need to know the url (or IP Address) of the node. MMC will then display the page served by the node.

To do this, we need to know the URL for each node, and want to retrieve this URL over the VLCB (CAN) connection MMC will already have with the node. The URL will require more than one CAN message

This use case focuses on the retrieval of the URL.

The fetch & rendering of the page from the node is outside the scope of this use case.

It’s expected that this will be invoked on an individual node at a time – i.e. a one to one transaction

This mechanism should be available from the node by default without extra configuration

1. Actors

The MMC user initiates this process by selecting to configure a specific node in MMC

If the node supports it, MMC initiates the request for the URL

The individual node responds with its URL

1. Pre-Conditions

The node must be able to support a high bandwidth network connection (e.g. wifi), and host it’s own web page for configuration

The node must support this service and without extra configuration should be able to respond to the request from MMC

The node must already be connected to the MMC using the VLCB protocol

1. Basic Flow
2. The MMC needs to know if the node supports this service
3. The MMC sends a request for the URL to an individual node
4. The node responds with its URL, over multiple CAN messages
5. Supplemental Requirements

It could be possible that there is more than one application retrieving URLs at the same time, so it may be thought this then becomes a “many to many” requirement, and interleaving of messages many be a challenge

Revision History

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| V. | Date | Author | Description | Status |
| 1 | 10/8/2025 | David Ellis | Initial revision | draft |
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