

# Canbridge - Feature #429

## Multi-Nodes

27.10.2023 14:31 - Maximilian Seesslen

<b>Status:</b>	Neu	<b>Beginn:</b>	27.10.2023
<b>Priorität:</b>	Normal	<b>Abgabedatum:</b>	
<b>Zugewiesen an:</b>	Maximilian Seesslen	<b>% erledigt:</b>	0%
<b>Kategorie:</b>		<b>Geschätzter Aufwand:</b>	0.00 Stunde
<b>Zielversion:</b>	0.1.0	<b>Aufgewendete Zeit:</b>	0.00 Stunde
<b>CS Zielversion:</b>			

### Beschreibung

There should not only be point-to-point connections. Each device should talk to each device.  
So a package contains:

- node-address; 1B (Section)
- Package-ID

(Device needs to send broadcasts periodically to advertise itself.)  
Device needs to send broadcasts at start to reset current package-id.

## Implementation 1

Address filtering is not enabled in the device.

When sending an package, it is only send to broadcast address a single time but is stored in the transmit-list for each target section.  
When a resend is necessary, it only sends the package to the section address.  
Acknowledges are only send to the package source section.

- ~~The latest package id is tracked for each section.~~ The entries in the send-list contain a bit-mask for the sections
- The entries in the send-list contains a single retry-counter. When a retry-count is exceeded, al sections in the mask are affected.

## Syncing on restart of single Section

- Single sections should be disconnectable
- Nodes have to track existing sections.
- How does new node introduce?
- On power-on all sections are enabled. The device sends intro-packages to all sections. If large retry-count do not pass, sections get disabled.

### Historie

#### #1 - 27.10.2023 15:00 - Maximilian Seesslen

- Beschreibung aktualisiert
- Zugewiesen an wurde auf Maximilian Seesslen gesetzt

Manual: "5.5.7.2. Address Based"

#### #2 - 27.10.2023 15:26 - Maximilian Seesslen

- Beschreibung aktualisiert

#### #3 - 27.10.2023 15:38 - Maximilian Seesslen

- Beschreibung aktualisiert

#### #4 - 27.10.2023 16:52 - Maximilian Seesslen

- Beschreibung aktualisiert

#### #5 - 27.10.2023 16:56 - Maximilian Seesslen

- Beschreibung aktualisiert

**#6 - 27.10.2023 18:04 - Maximilian Seesslen**

- Beschreibung aktualisiert

**#7 - 20.11.2023 15:10 - Maximilian Seesslen**

- Zielversion wurde auf 0.1.0 gesetzt