PKeys Window

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The PKeys window allows users to create new groups of ports and provides information about existing PKeys.

> ℹ️ **Note**
>
> This window offers one predefined PKey (highlighted in the list of PKeys): Management key 0x7fff with Read permissions only.

For further information about InfiniBand partitioning (Pkeys management), please refer to the Partitioning Appendix.

Creating New PKey

1. Click the "New" button under "PKeys".
   Please note that the yellow highlighted PKeys are predefined ones.
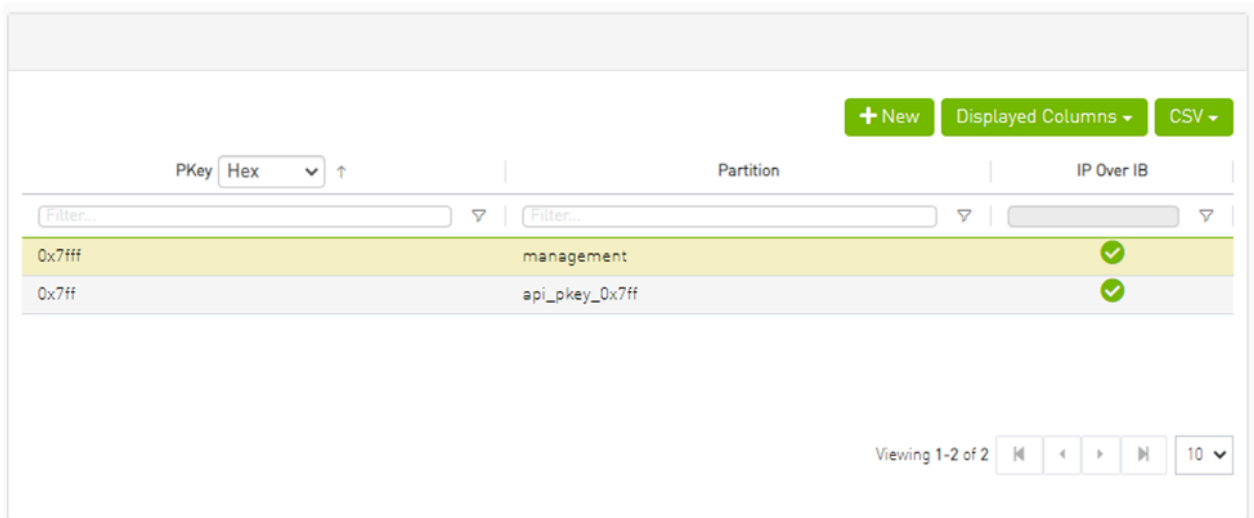
2. In the New PKey wizard, fill in the required information under the General tab:

   o Name—must be between 0x1 and 0x7fff, inclusive

- Index-0 attribute—True/False

- IP Over IB attribute—True/False

3. Click "Next."

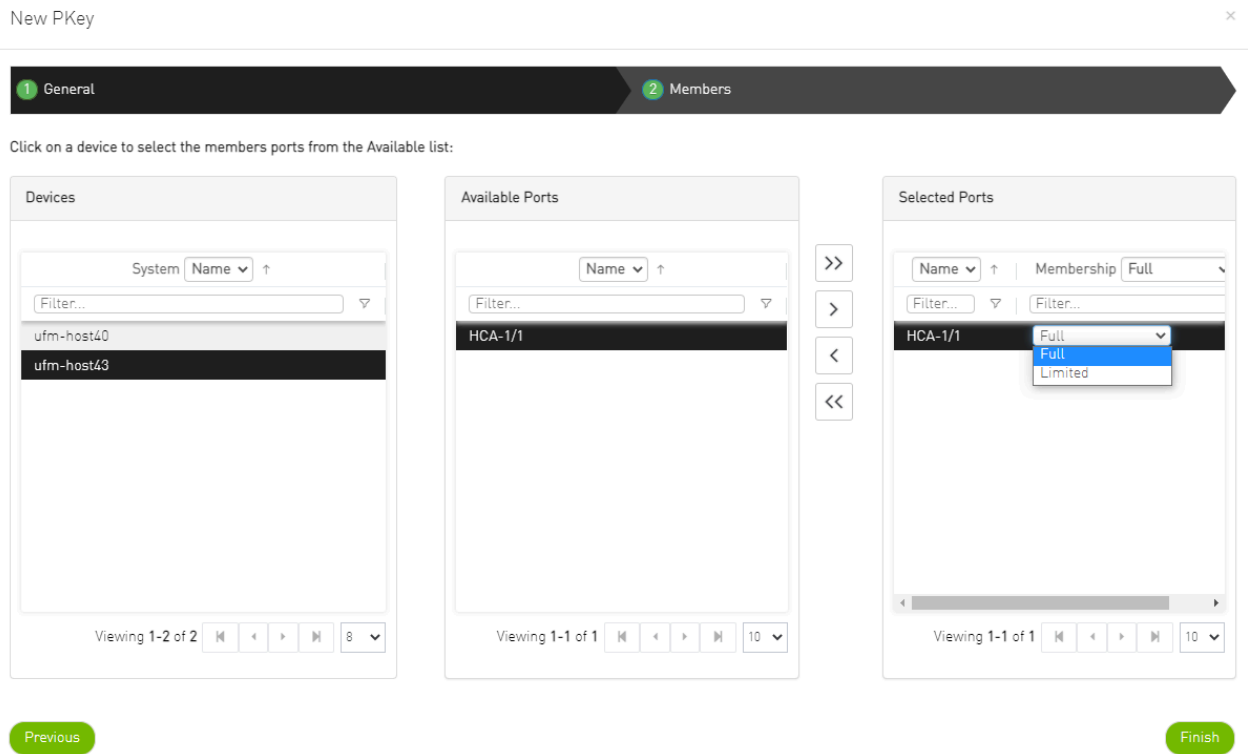4. Under Members tab, select the device of which ports you would like to group in one PKey, and move the members (ports) from the **Available** list to the **Selected** list. For each member (port) you may specify a membership type (Full/limited).

5. Click "Finish". The new PKey will become available under the PKey window.

When selecting a PKey from the PKeys table, **PKey Information** table will appear on the right side of the screen. This table provides information on the PKey's members and QoS settings.

PKey Members Tab

Provides details on the PKey members: port's hostname (node), device's IP address, port GUID, port number, membership and index-0 attributes values.
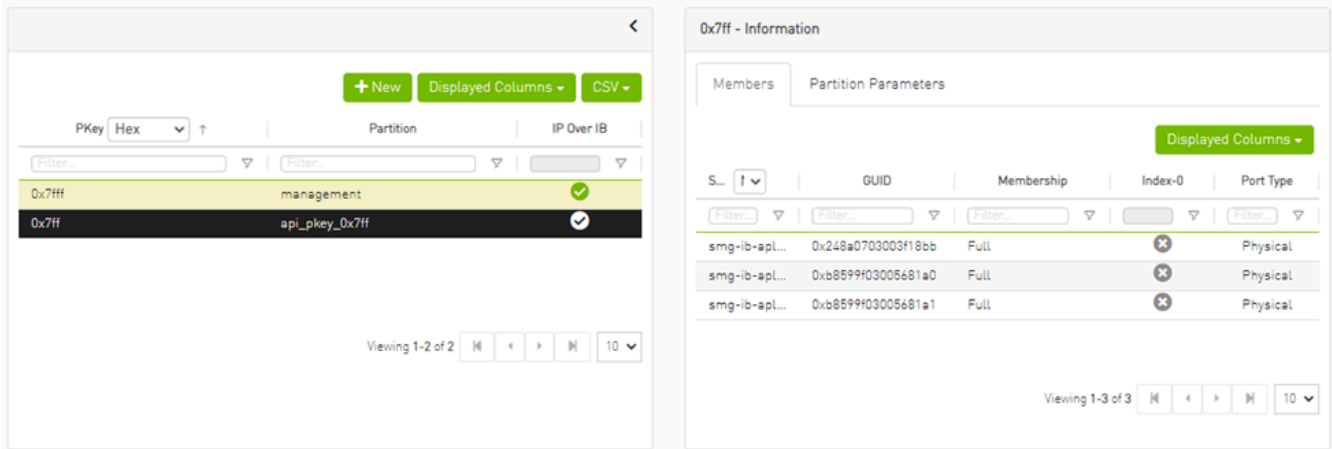
PKey QoS Tab

Displays the current partitioning parameter settings of the selected PKey: MTU Limit, Service Level and Rate limit. These settings can be modified by the user.
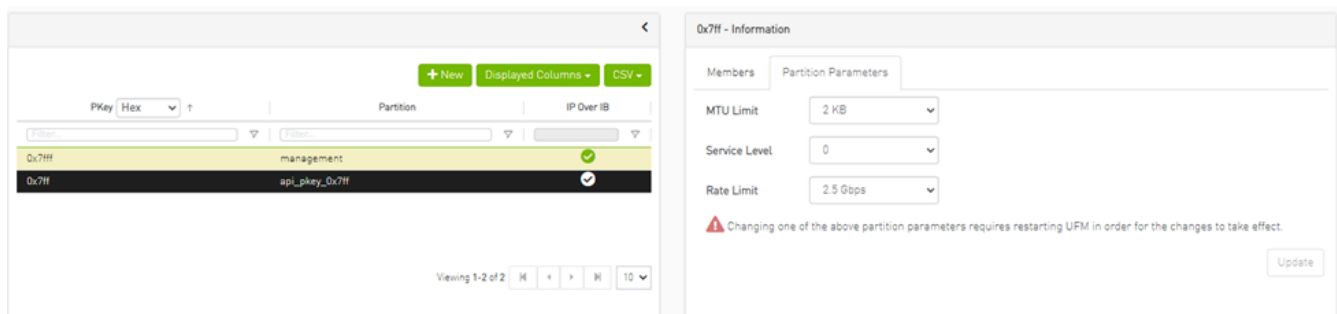
PKey Actions

Right-clicking one PKey from the list enables performing the following actions:

- **Modify Members** – PKeys can be modified either by editing the attributes under **General** tab, or updating the members under **Members** tab. Including updating ports memberships.

- **Remove** – existing PKeys can be deleted from the list.

> **ⓘ Note**
>
> For information on partitioning, refer to <u>Appendix – Partitioning</u>.

> **ⓘ Note**
>
> Note that restarting OpenSM is required for the QoS parameters change to take effect.

Support Pkey with Virtual Ports

Creating a pkey with virtual ports is supported, so pkey can contain the following types of port:

- Physical

- Virtual

- Both physical and virtual

The create new pkey wizard dropdown includes port types.

New PKey

×

1 General   **2** Members

Click on a device to select the members ports from the Available list:

Devices	Available Ports	Show: Physical ⌄	Selected Ports

System [Name ⌄] ↑

[Filter...] ▽

r-ufm254-hyp-03
r-ufm254-hyp-04
ufm-host87

[GUID ⌄] ↑

[Filter...] ▽

0x0c42a103007aca90

⟫

›

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⟪

[GUID ⌄] ↑   Memb... [Full ⌄]

[Filter...] ▽ [Filter...] ▽

No items were found

Viewing **1-3** of **3** |◄ ◄ ► ►| [8 ⌄]

Viewing **1-1** of **1** |◄ ◄ ► ►| [10 ⌄]

Viewing **0-0** of **0** |◄ ◄ ► ►| [10 ⌄]

Previous   Finish

New PKey

×

1 General   **2** Members

Click on a device to select the members ports from the Available list:

Devices	Available Ports	Show: Virtual ⌄	Selected Ports

System [Name ⌄] ↑

[Filter...] ▽

r-ufm254-hyp-03
r-ufm254-hyp-04
ufm-host87

[GUID ⌄] ↑

[Filter...] ▽

0x1122334477667700
0x1122334477667701
0x1122334477667710
0x1122334477667711

⟫

›

‹

⟪

[GUID ⌄] ↑   Memb... [Full ⌄]

[Filter...] ▽ [Filter...] ▽

No items were found

Viewing **1-3** of **3** |◄ ◄ ► ►| [8 ⌄]

Viewing **1-4** of **4** |◄ ◄ ► ►| [10 ⌄]

Viewing **0-0** of **0** |◄ ◄ ► ►| [10 ⌄]

Previous   Finish

① General   ② Members

Click on a device to select the members ports from the Available list:

Devices

System Name ∨ ↑

Filter... ▽

r-ufm254-hyp-03
r-ufm254-hyp-04
ufm-host87

Viewing **1-3** of **3** ⏮ ◄ ► ⏭ 8 ∨

Available Ports   Show: Both ∨

GUID ∨ ↑

Filter... ▽

0x0c42a103007aca90
0x1122334477667700
0x1122334477667701
0x1122334477667710
0x1122334477667711

Viewing **1-5** of **5** ⏮ ◄ ► ⏭ 10 ∨

≫
›
‹
≪

Selected Ports

GUID ∨ ↑ | Memb... Full ∨

Filter... ▽ | Filter... ▽

No items were found

Viewing **0-0** of **0** ⏮ ◄ ► ⏭ 10 ∨

Previous   Finish