

Hauptwerk ODF objects relationship chart

Legend :

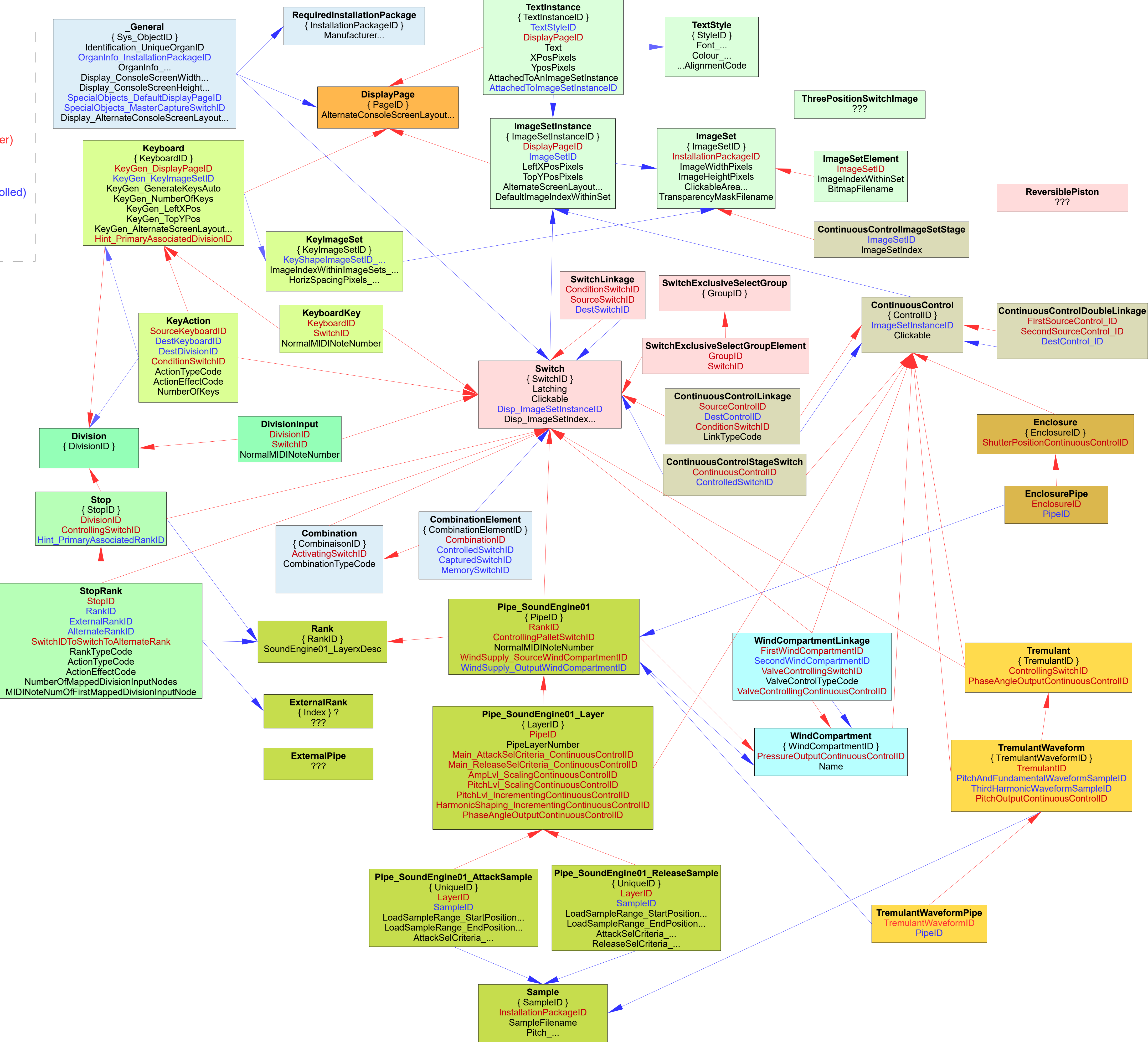
Object Type

{ object ID }

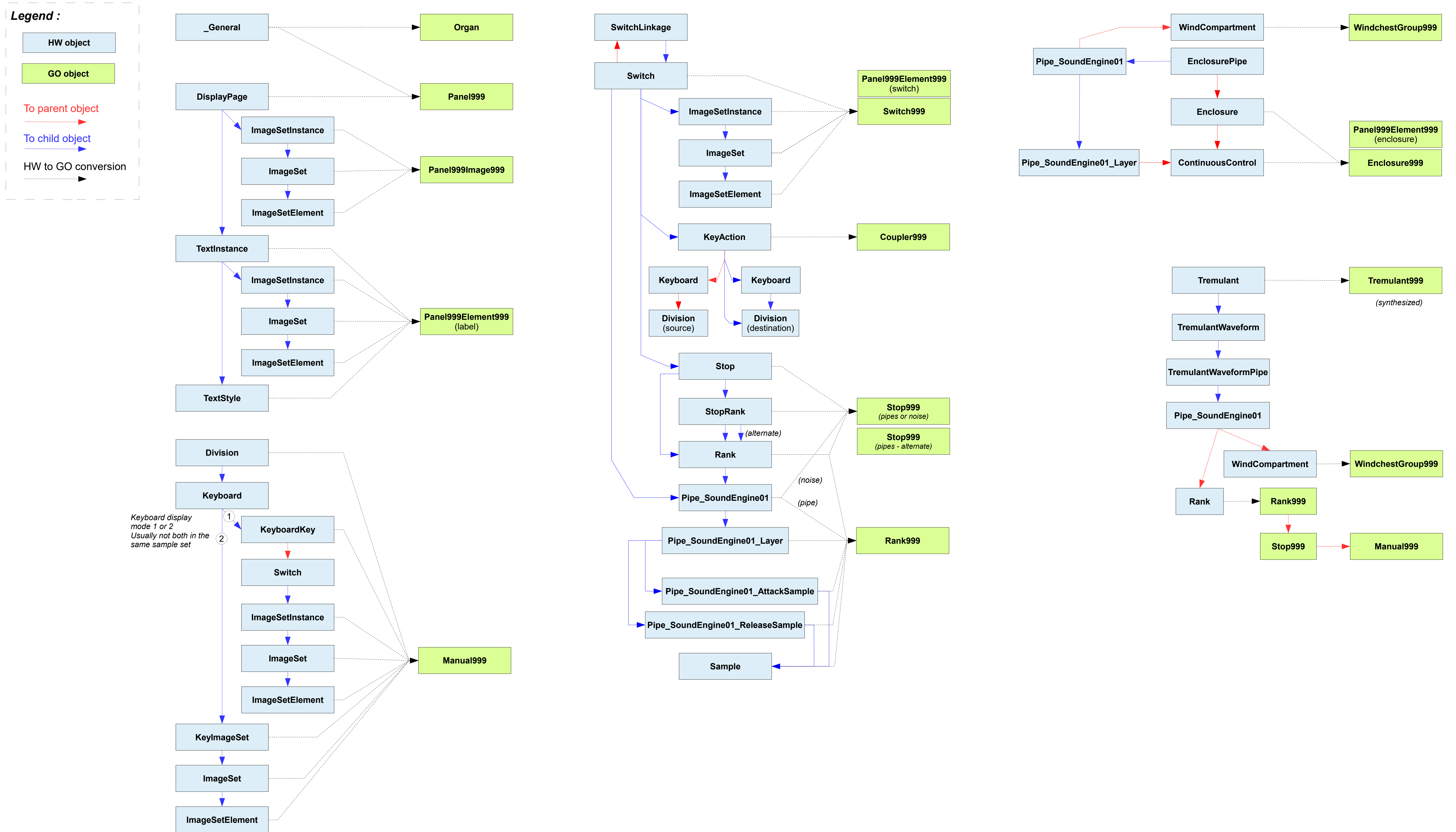
Parent object ID
(owner or controller)

Child object ID
(member or controlled)

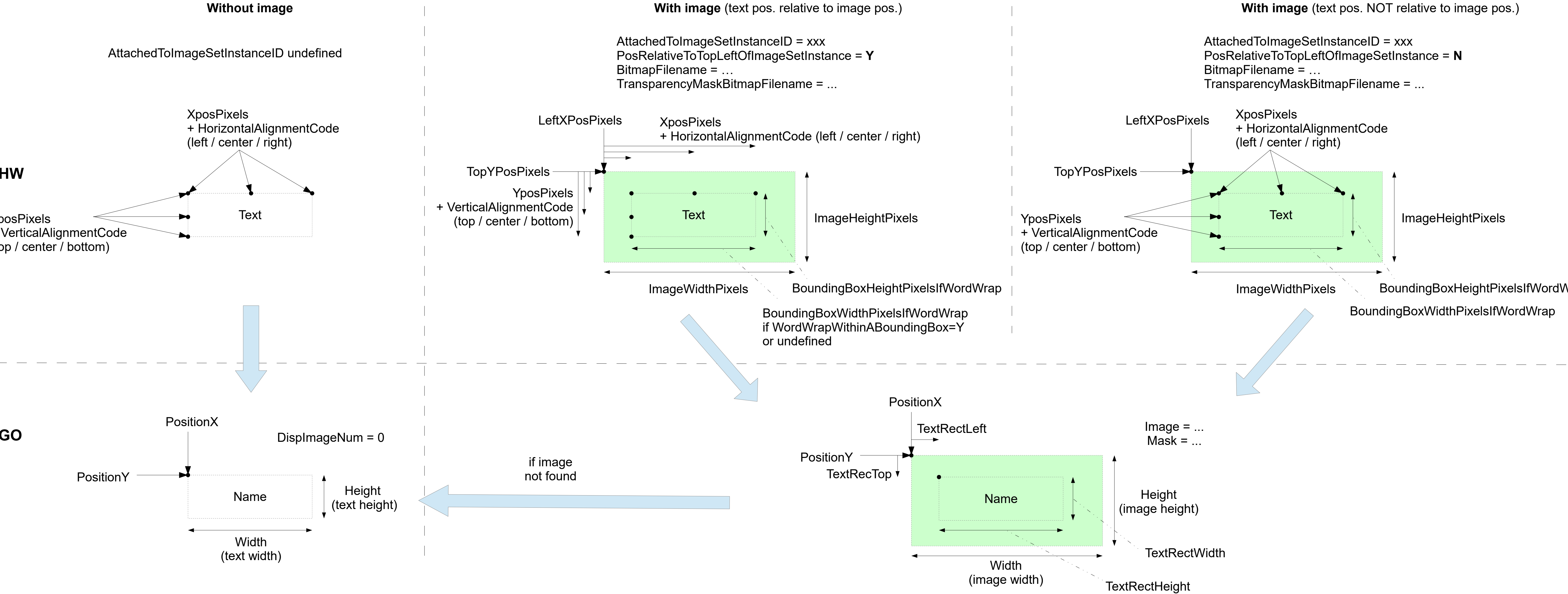
Other interesting
attributes



Hauptwerk to GrandOrgue ODF objects relationship chart

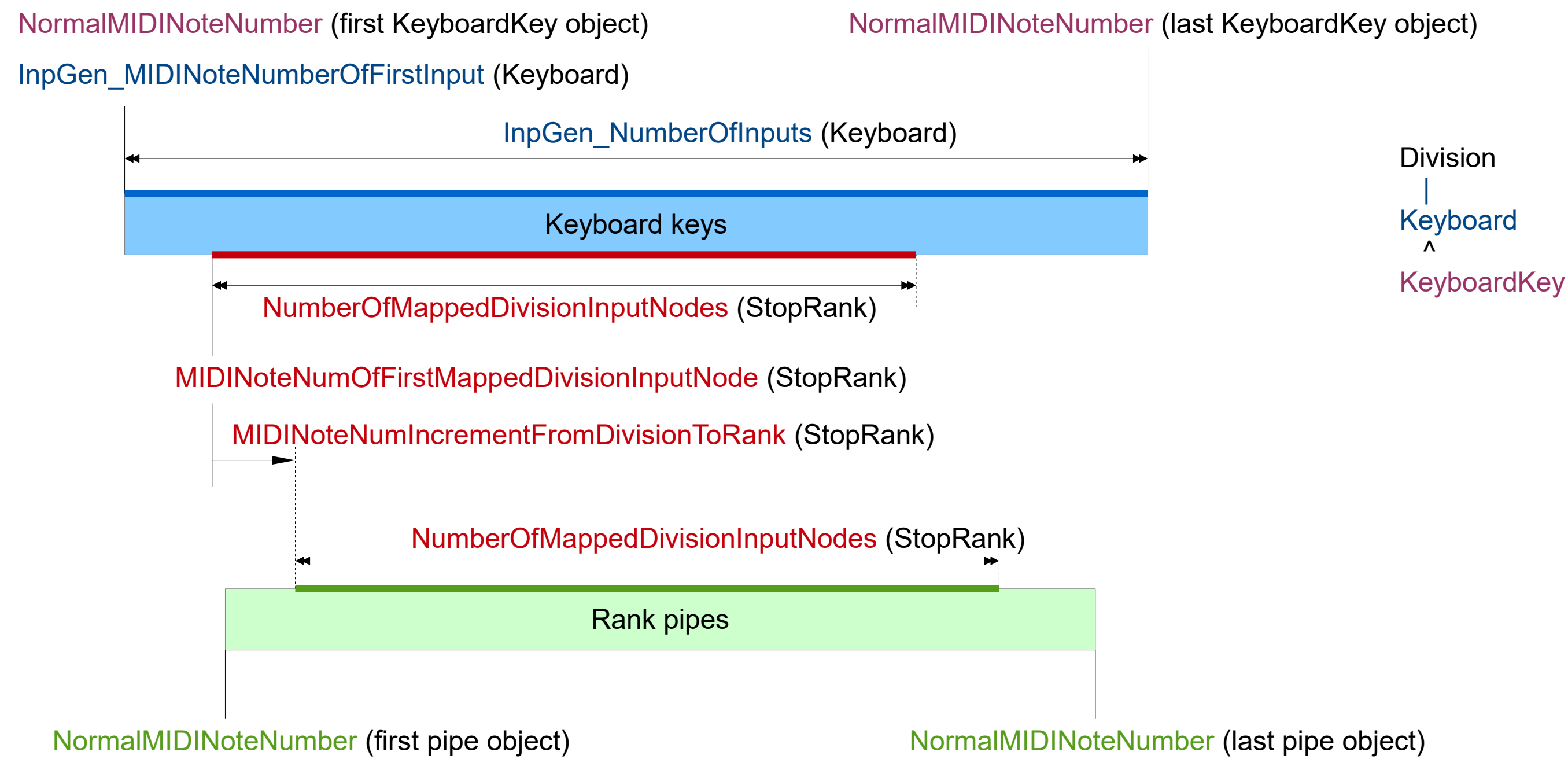


Label conversion
from HW to GO
for positions/sizes and text attributes



If the `PositionX` / `PositionY` of a GO label is within the display rectangle of a GO `PanelElement` (but `Manual` and `Label`), the GO label is not created and its `Name` attribute is copied in the `DisplLabelText` of the `PanelElement` and `TextRectLeft` / `TextRectTop` are set to place the text in the GO `PanelElement`

Stop/Rank conversion from HW to GO for compass related attributes



| means link one to one
^ means link one to several (from up to dow)



If HW **MIDINoteNumIncrementFromDivisionToRank** not defined
= 0

If HW **MIDINoteNumOfFirstMappedDivisionInputNode** not defined

```

= HW NormalMIDINoteNumber (first)
HW MIDINoteNumOfFirstMappedDivisionInputNode =
  max (HW MIDINoteNumOfFirstMappedDivisionInputNode,
        HW NormalMIDINoteNumber (first) - HW MIDINoteNumIncrementFromDivisionToRank )

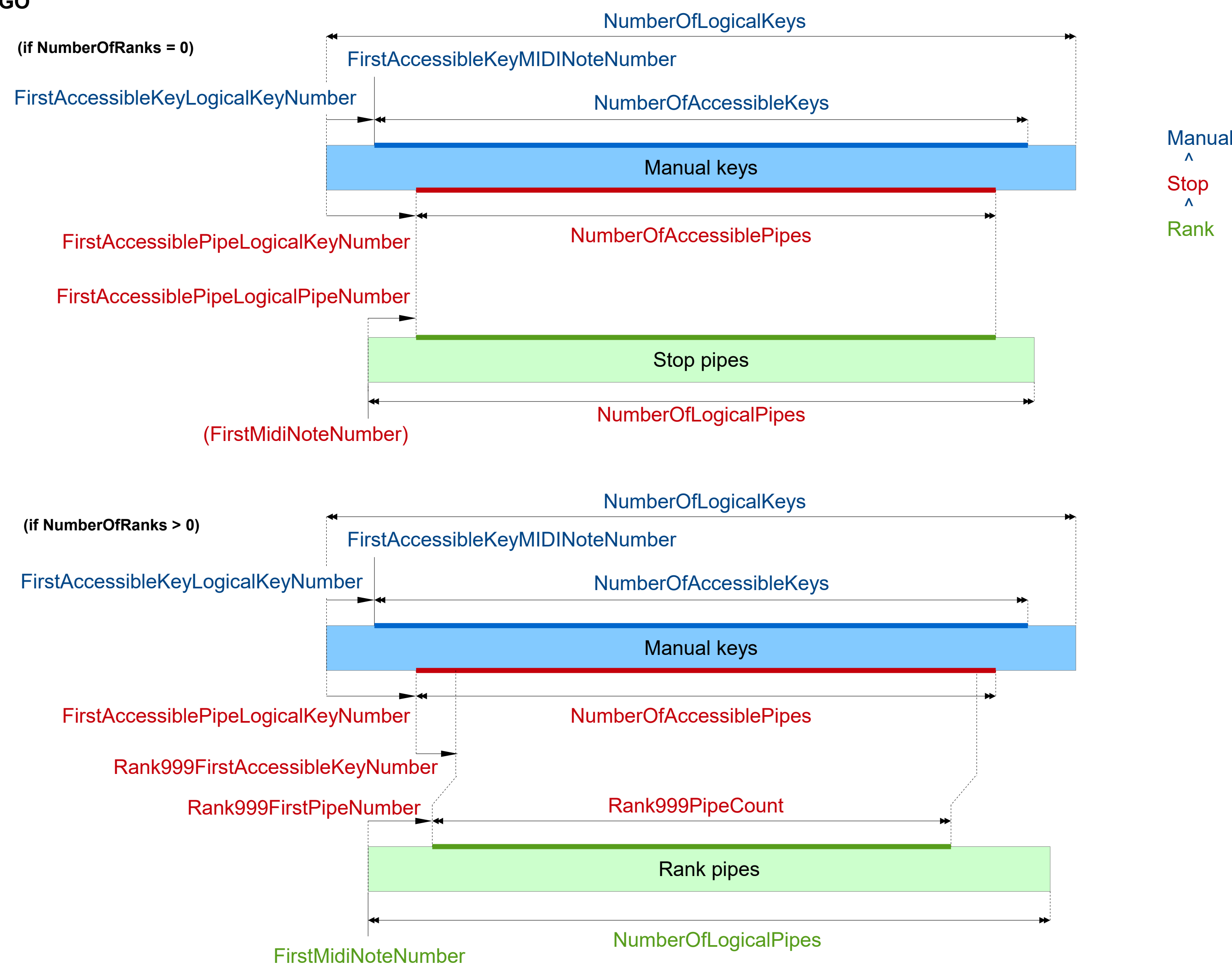
```

If HW **NumberOfMappedDivisionInputNodes** not defined

$$\begin{aligned} &= \text{HW_NormalMIDI}(\text{NoteNumber}(\text{last} - \text{first} + 1)) \\ \text{HW_NumberOfMappedDivisionInputNodes} &= \\ &\min(\text{HW_NumberOfMappedDivisionInputNodes}, \\ &\quad \text{HW_NormalMIDI}(\text{NoteNumber}(\text{last})) \\ &\quad - (\text{HW_MIDI}(\text{NoteNumOfFirstMappedDivisionInputNode}) \\ &\quad + \text{HW_MIDI}(\text{NoteNumIncrementFromDivisionToRank})) + 1 \end{aligned}$$

HW

GO



Manual
^
Stop
^
Rank

```
GO Rank999FirstPipeNumber =
  HW MIDINoteNumOffFirstMappedDivisionInputNode
+ HW MIDINoteNumIncrementFromDivisionToRank
- HW NormalMIDINoteNumber (first) + 1
```

$$\text{GO Rank999FirstAccessibleKeyNumber (absolute value)} = \text{HW MIDINoteNumOfFirstMappedDivisionInputNode} - \text{GO FirstAccessibleKeyMIDINoteNumber} + 1$$

GO Rank999PipeCount = HW NumberOfMappedDivisionInputNodes

GO FirstAccessiblePipeLogicalKeyNumber =
min(GO Rank999FirstAccessibleKeyNumber (absolute value)) of all Rank999s

$$\begin{aligned} \text{GO_NumberOfAccessiblePipes} = & \max(\text{GO_Rank999FirstAccessibleKeyNumber (absolute value)} \\ & + \text{GO_Rank999PipeCount}) \text{ of all Rank999s} \\ & - \text{GO_FirstAccessiblePipeLogicalKeyNumber} + 1 \end{aligned}$$
$$\text{GO Rank999FirstAccessibleKeyNumber (offset value)} = \text{GO Rank999FirstAccessibleKeyNumber (absolute value)} - \text{GO FirstAccessiblePipeLogicalKeyNumber}$$

GO FirstMidiNoteNumber = HW NormalMIDINoteNumber (min)

GO NumberOfLogicalPipes = HW NormalMIDINoteNumber (max – min + 1)