



# Label Matching

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## Label Matching

Label matching is used to determine which consumer and provider EPGs can communicate. Contract subjects of a given producer or consumer of that contract determine that consumers and providers can communicate.

The match type algorithm is determined by the `matchT` attribute that can have one of the following values:

- All
- AtLeastOne (default)
- None
- AtmostOne

When both EPG and contract subject labels exist, label matching is done first for EPGs, then for contract subjects.

When checking for a match of provider labels, `vzProvLbl`, and consumer labels, `vzConsLbl`, the `matchT` is determined by the provider EPG.

When checking for a match of provider or consumer subject labels, `vzProvSubjLbl`, `vzConsSubjLbl`, in EPGs that have a subject, the `matchT` is determined by the subject.

The same `matchT` logic is the same for EPG and contract subject labels. The following table shows simple examples of all the EPG and contract subject provider and consumer match types and their results. In this table, a `[ ]` entry indicates no labels (NULL).

<code>matchT</code>	<code>vzProvLbl</code> <code>vzProvSubjLbl</code>	<code>vzConsLbl</code> <code>vzConsSubjLbl</code>	<b>Result should be</b>
All	[ ]	[ ]	match
All	LabelX, LabelY	LabelX, LabelY	match
All	LabelX, LabelY	LabelX, LabelZ	no match

<b>matchT</b>	<b>vzProvLbl</b> <b>vzProvSubLbl</b>	<b>vzConsLbl</b> <b>vzConsSubLbl</b>	<b>Result should be</b>
All	LabelX, LabelY	LabelX	no match
All	LabelX	LabelX, LabelY	match
All	[ ]	LabelX	no match
All	LabelX	[ ]	no match
AtLeastOne	LabelX, LabelY	LabelX	match
AtLeastOne	LabelX, LabelY	LabelZ	no match
AtLeastOne	LabelX	[ ]	no match
AtLeastOne	[ ]	LabelX	no match
AtLeastOne	[ ]	[ ]	match
None	LabelX	LabelY	match
None	LabelX	LabelX	no match
None	LabelX, LabelY	LabelY	no match
None	LabelX	LabelX, LabelY	no match
None	[ ]	LabelX	no match
None	LabelX	[ ]	match
None	[ ]	[ ]	match
AtmostOne	LabelX	LabelX	match
AtmostOne	LabelX, LabelY	LabelX, LabelY	no match
AtmostOne	LabelX, LabelZ	LabelX, LabelY	match
AtmostOne	LabelX	LabelY	no match
AtmostOne	[ ]	LabelX	no match
AtmostOne	LabelX	[ ]	no match
AtmostOne	[ ]	[ ]	match