Creating a filter in DB64 so that no communication idoc is sent

Purpose

The purpose of this document is to explain how you can avoid a communication idoc being created in case the data does not meet the criteria in a filter group defined in BD64.

Overview

Master Idocs have two types of segments:

1) Mandatory Segments - These segments need to be sent in order for the resulting communication Idocs to be created in the receiving system.

2) Non-mandatory (Optional) Segments - Resulting communication Idocs are created even if these optional segments are not sent. The segments will just be omitted from the resulting communication Idocs.

Filtering via the distribution model works as follows: If the filter object refers to a field of an optional segment and the value does not match the values entered here then the segment and all its subsegments are deleted from the data part of the communication IDoc only. This means that an Idoc is sent but without the segment you have your filter on.

If the filter object refers to a field of a Mandatory segment, a Master Idoc is only sent only if the value in the IDoc matches the values entered here.

So in your case it is not possible to prevent the sending of a whole Idoc with the setup you have defined in your distribution model as the segments are "non-mandatory" so they will just be omitted from the resulting communication Idocs.

How to achieve this

There are two possibilities for this. The first one is using the BADI IDOC_CREATION_CHECK (822929) which has been developed for 4.7 Enterprise exactly for this requirement.

The second possibility is to enhance your IDoc with a customer segment and define this customer segment as a mandatory one. Then you can filter values of this mandatory segment when you modify inbound and outbound in that way that the affected fields are contained also in this mandatory segment.

BD64 filtering is a segment filtering which has been created for reducing the amount of IDoc data in the first case - not for avoiding whole IDoc sending. This is a side effect only as it is not possible to create an IDoc without a mandatory segment.