

# Interoperability problem with "notifybit issue" (revisited at the New Orleans Meeting)

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# In New Orleans Meeting...

- ▲ The ORBs whose notifybit is NOT asserted may exist.

(we agreed no more explicit on notify bit than SBP-2 specification.)

**->Target may not store the Status block for some ORBs**

# Potential interoperability Problem

By the status block initiator knows

- ▲ the result of the corresponding ORB execution.
- ▲ completion of the ORB and its preceding ORBs in the queue.

## **Without Status block**

### (Problem1)

Initiator can not be informed of the result of the ORB execution

->Initiator and target may have different perceptions of the result of some ORB execution.

**->Can not provide transparency transport service**

### (Problem2)

Initiator can not be informed of the completion of Final ORB if the status block for Final ORB is not stored

**-> can not complete the procedure of disconnecting the queue**

# *Solution(1-1)*

Target shall store the status for a ORB in case that any of following conditions besides the condition SBP-2 specifies occur.

- ▲ The queue identified in the ORB has not been allocated to an active connection.
- ▲ Target reset by another initiator.
- ▲ The target control information is available.
- ▲ The target application data for the queue specified by the ORB is available.
- ▲ The data transferred from the target to the initiator is special.
- ▲ There exists a message boundary in the data transferred from the target to initiator

## **Solution(1-2)**

In case initiator has not received the status block for a ORB and received status block for one of ORBs following the ORB in the queue ,initiator may report the following condition to the client as the result of execution of the ORB.

- ▲ The queue identified in the ORB has been allocated to an active connection.
- ▲ No target reset by another initiator.
- ▲ No target control information is available.
- ▲ No target application data for the queue specified by the ORB is available.
- ▲ The data transferred from the target to the initiator is not special.
- ▲ There exists no message boundary in the data transferred from the target

## *Solution(2)*

- ▲ To solve the problem 2 it is required that initiator shall be informed of the completion of final ORB for the queue.

**Initiator shall set the notifybit to one when the final bit is one.**

Both Initiator and Target need to assume the "same" status information for implicit completions.

