Production Order Information System (COOIS)

Purpose

This page will be describe the functions and most common user problems of the production order information system.

Overview

In the first part we look into the functions of COOIS, then we will illustrate with examples the most common user issues.

General information

- Transaction COOIS
- It displays order data based on selection criteria
- selection criteria: on header level, on operation/component level
- absolute and relative dates: e.g. 10- until today is relative date and 02.12.2013 is absolute date
- there are different lists, the customer can define an own too, these are important because of the display

Functions and attributes

Maximum number of orders (COOIS)

- the system stops after this number, reads all of the orders but displays only a restricted number of orders

![Production Order Information System](image)
Modification of the screen

- It can happen, that the user wants to display other fields in the result screen of COOIS than provided in the standard
- In this case the user has to use BAdI 'WORKORDER_INFOSYSTEM (Transaction SE18)' It provides possibilities to add entries to selection screen or to result screen, influences the output screen

<table>
<thead>
<tr>
<th>Attachment</th>
<th>Program List</th>
<th>Structure</th>
<th>Include</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPADM000</td>
<td>Goods Movements</td>
<td>IOGAMO</td>
<td>RCIGAMO</td>
</tr>
<tr>
<td>PPID002</td>
<td>Trigger Points</td>
<td>IOGINST</td>
<td>RCIGNST</td>
</tr>
<tr>
<td>PPIT000</td>
<td>Production Resource/Tool</td>
<td>IOOPPRT</td>
<td>ROOPRT</td>
</tr>
<tr>
<td>PPISO000</td>
<td>Automatic Goods Movements</td>
<td>IOOSMO</td>
<td>RCISOOM</td>
</tr>
<tr>
<td>PPISO000</td>
<td>Order Headers</td>
<td>IOHEADER</td>
<td>ROCHEAD</td>
</tr>
<tr>
<td>PPISO000</td>
<td>Items</td>
<td>IOITEM</td>
<td>ROCITEM</td>
</tr>
<tr>
<td>PPISO000</td>
<td>Capacities</td>
<td>IOOPCAP</td>
<td>ROCIcap</td>
</tr>
<tr>
<td>PPISO000</td>
<td>Components</td>
<td>IOOPCOMP</td>
<td>ROCICOMP</td>
</tr>
<tr>
<td>PPISO000</td>
<td>Operations</td>
<td>IOOPER</td>
<td>ROCOPER</td>
</tr>
<tr>
<td>PPISO000</td>
<td>Purchase Requisitions</td>
<td>IOOPREQ</td>
<td>ROCIREQ</td>
</tr>
<tr>
<td>PPISO000</td>
<td>Confirmations</td>
<td>IOCONF</td>
<td>ROCICONF</td>
</tr>
<tr>
<td>PPISO000</td>
<td>Sequences</td>
<td>IOSEQUEN</td>
<td>ROCISEQU</td>
</tr>
<tr>
<td>PPISO000</td>
<td>Purchase Orders</td>
<td>IOOPORD</td>
<td>ROCIORD</td>
</tr>
<tr>
<td>PPISO000</td>
<td>Goods Movements with Errors</td>
<td>IOGEMER</td>
<td>ROCIGMER</td>
</tr>
</tbody>
</table>

All changes here are modifications!

Performance issues

Case 1

- customer inserts data and the system leads to timeout or shows a time issue

Solution: it is recommended to use absolute or relative dates as criteria and it is important to choose a good selection criteria in general. Below there is an example to illustrate the importance of an appropriate selection criteria.

Example:
1) Order master data level (Table AUFK)
Transaction SE16 -> Insert AUFK (choose order AUTYP 10 to make sure, that only production orders are selected and choose WERKS 0001 as well) >>> Number of entries is very high
2) Order position level (Table AFPO)
Transaction SE16 -> Insert AFPO (choose MATNR) >>> here the number of entries is much less than it was in the previous case
if the customer in COOIS wants to display the production order with plant and with a material, it is needed to add MATNR: Menu -> Settings ->
Fields for Selection: MATNR add

Case 2
- The user inserts a material in COOIS and there is a runtime issue. Theoretically it can be a runtime issue, if the user inserts many data (work center, plant) at operation level too. From this reason it is needed to check what happens at order level.

Solution:
the system can be slow in this case, because it does two steps:
1) first selection is based on header level and on header level dates (absolute and relative)
   -> if in this first level many entries need to be read, it can be a performance issue, even if there are selection criteria at operation level (it has no effect on it!)
2) check at operation level
   -> the system needs to check for each on header level selected order the operations and normally one order has more operations
   (it is recommended to use dates to reduce the number of data at the first level)

Other common problems

Bad selection based on the work center

In COOIS selection criteria material is at header level and the work center at operation level. After the selection the system also displays in the operations list those production orders which have other work centers as given in the selection criteria.
### Production Order Change: Operation Overview

<table>
<thead>
<tr>
<th>Operation</th>
<th>Start Date</th>
<th>Work Center</th>
<th>Plant</th>
<th>Order Type</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>0019</td>
<td>22.06.2013</td>
<td>SD_001</td>
<td>001</td>
<td>PP01</td>
<td></td>
</tr>
<tr>
<td>0020</td>
<td>22.06.2013</td>
<td>SD_001</td>
<td>001</td>
<td>PP01</td>
<td></td>
</tr>
<tr>
<td>0020</td>
<td>22.06.2013</td>
<td>ABB-001</td>
<td>001</td>
<td>PP01</td>
<td></td>
</tr>
<tr>
<td>0020</td>
<td>22.06.2013</td>
<td>ABB-001</td>
<td>001</td>
<td>PP01</td>
<td></td>
</tr>
</tbody>
</table>

### Production Order Information System

#### Selection

- **Production Order**: MITU_TEST1
- **Material**: MITU_TEST1
- **Production Plant**: 001
- **Order Type**: PP01
- **MRP Controller**: to
- **Production Supervisor**: to
- **Production Version**: to
- **Sold-to Party**: to
- **Sales Order**: to
- **Sales Order Item**: to
- **WBS Element**: to
- **Sequence number**: to
- **Selection profile status**: to
- **System Status**: to
- **Work Center**: SD_001
- **Plant**: 001
**Solution:** this is standard behavior!

**Explanation:** Briefly COOIS is an order information system, not an operation information system. If we set the above written selection criteria, then if the system finds a material with at least one operation with the given work center, all of the operations will be displayed. Please see the related KBA below.

**Orders with deletion flag are not displayed in the result screen**

**Solution:** set the flag ‘With deletion flag/indicator’ in COOIS
Not every planned order was selected

- it is possible to display planned orders too
- if we set or unset the flags Planned/Production order, the screen changes

Problem: if planned orders flag is set, the system does not select all of the planned orders
Solution: only restricted types of planned orders are checked (LA, PE, KD, PR >>> only these types are relevant for production and as COOIS is an order information system, only those planned orders are shown, which are relevant for production)

Related Content

Related Documents
SAP Help: Order Information System

Related SAP Notes/KBAs
SAP Note 363327: COOIS/CO26/CO28: Change list of fields that can be displayed
SAP Note 434123: Filling and displaying own fields in information system
SAP Note 540779: FAQ: Information system
SAP Note 2161130: COOIS confirmation shows incorrect operation and suboperation no. for the order

SAP Note 159201: Modif. CO26, CO28, COOIS: hiding of alt. sequences

SAP KBA 1991482: PP: COOIS / COOISPI confirmed qty is not updated after confirmation

SAP KBA 1839953: Performance issue on COOIS / COOISPI / PPIO_ENTRY

SAP Note 826281: COOIS: Poor performance for selection by work center