# Technical Documentation – ZIN\_CMX\_WORKORDER

## 1. Technical Reference

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| Object Name | Object Type | Object Description |
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| ZIN\_CMX\_WORKORDER | Report | Sends SAP Maintenance Orders to CMX via CPI |
| ZIN\_CMX\_WORKORDER\_TOP | Include | Global variables and constants |
| ZIN\_CMX\_WORKORDER\_F01 | Include | Main logic for fetching, checking, sending orders |
| ZCMX\_RUN\_LOG | Table | Custom log table for CMX transmission |
| BAPI\_ALM\_ORDER\_MAINTAIN | Function Module | Used for setting CMXS status |
| CL\_SALV\_TABLE | Class | For ALV display output |
| CL\_HTTP\_CLIENT | Class | To send JSON payload to CPI |
| INOB, AUSP, JEST, JCDS, CDHDR | SAP Tables | Classification, status, and change history |

## 2. Flow Diagram

Selection Screen → Fetch Orders → Prefetch Related Data → Check Order Status (REL, TECO, LKD) → Decide Action (Send to BAPI/CPI/Skip) → Prepare ALV Output → Send Data to CPI → Write Logs

## 3. Steps Description

1. User runs program manually with date/time filters.
2. System fetches maintenance orders from VIAUFKST.
3. Related data is pre-fetched from tables (JEST, INOB, AUSP, CDHDR, JCDS).
4. Each order is validated for INTERFACE = CMX, REL/TECO/LKD, and time filters.
5. Program determines which orders to send to BAPI and CMX based on current and past status.
6. Builds ALV output summary.
7. Sends JSON payload to CPI destination.
8. Writes all transactions to ZCMX\_RUN\_LOG.

## 4. Technical Details

Manual or scheduled execution. Filters by JCDS/CDHDR change timestamps. Integrates with CPI via RFC destination CMX\_WorkOrders.

## 5. Status Logic Summary

REL (no CMXS) → Send to BAPI + CMX  
REL (with CMXS) → Send to CMX only  
TECO → Send to CMX only (skip BAPI)  
Locked → Skip both BAPI and CMX  
Unlocked (was LKD, with CMXS) → Send to CMX only  
Unlocked (was LKD, no CMXS) → Send to BAPI + CMX

## 6. Test Scenarios Summary

All unit tests from funct.pdf satisfied:  
• REL – sent to BAPI + CMX  
• TECO – sent to CMX only  
• Locked – skipped or sent to CMX if CMXS active  
• Unlock – correctly re-sent as REL  
• No duplicates in ALV  
• Proper log handling  
• Lock release handled via DEQUEUE\_ALL