

SAMPLE REPORT. Simulated estate — demonstration data, the same estate as the Abendly live demo. Not a customer's report.

ABENDLY · MQ HEALTH CHECK REPORT

Demo bank · payments estate

Period 24 Sep to 23 Oct 2026 · export taken 23 Oct 2026 at 09:51 CDT

1

act now

2

act today

3

chronic patterns

3

queue managers reviewed

Prioritised fix list

6 items, most urgent first. Every command is for your team to review and run; Abendly runs nothing.

▲ ACT NOW 1. PAYMENTS.INBOUND.QL QM_PAY01

Consumer payments-settle stalled at 09:42; depth 2,125 of 5,000 and rising 205 msgs/min at export. MAXDEPTH at about 10:05, 14 minutes later.

1. MQSC `DISPLAY CONN(*) TYPE(HANDLE) WHERE(OBJNAME EQ PAYMENTS.INBOUND.QL)` read-only
Find the stalled consumer
2. App *Restart the consuming app payments-settle on payapp03* change, run by your team
Application change, made by your team
3. MQSC `DISPLAY QLOCAL(PAYMENTS.INBOUND.QL) CURDEPTH` read-only
Confirm depth is falling

● TODAY 2. ORDERS.OUTBOUND.QL QM_BANK01

The weekday-morning backlog for the 6th time in 30 days, steeper each time: 31,400 at export, rising 138 msgs/min, MAXDEPTH at about 12:05. Permanent fix: Run two orders-dispatch consumers all day (the queue already allows shared input), then confirm a weekday morning passes without the climb.

1. MQSC `DISPLAY QSTATUS(ORDERS.OUTBOUND.QL) TYPE(Queue) CURDEPTH IPPROCS MSGAGE` read-only
Confirm one consumer and the climb
2. App *Start a second orders-dispatch instance* change, run by your team
Application change, made by your team (the queue allows shared input)
3. MQSC `DISPLAY QSTATUS(ORDERS.OUTBOUND.QL) TYPE(Queue) CURDEPTH IPPROCS` read-only
Expect IPPROCS(2) and depth falling

● TODAY 3. SETLSTR1 QSG PSG1 · CF01

CF structure 54.3% used and projected full at about 20:40, before the 22:00 drain. Puts to SETTLE.SHARED.QL would then fail. Longer term: CSQI004I recommends indexing SETTLE.SHARED.QL by CORRELID so the nightly drain stops scanning past messages; plan that change with your z/OS team.

1. MQSC `DISPLAY CFSTATUS(SETLSTR1) TYPE(SUMMARY)` read-only
Confirm usage and entries in use
2. z/OS `D XCF,STR,STRNAME=PSG1SETLSTR1` read-only
Check current and maximum size in the CFRM policy
3. z/OS `SETXCF START,ALTER,STRNAME=PSG1SETLSTR1,SIZE=6291456` change, run by your team
Expand to 6 GB if the CFRM policy allows; run by your z/OS team
4. MQSC `DISPLAY CFSTATUS(SETLSTR1) TYPE(SUMMARY)` read-only
Verify the new size and usage

◆ **PLANNED FIX** 4. **BANK.TO.CLEARING.SDR** QM_BANK01

Stopped 3 times in 30 days when its security exit ended abnormally (last on 23 Oct, 03:14 to 03:22). Until now: START CHANNEL(BANK.TO.CLEARING.SDR) after each stop. Permanent fix: Raise the clrsecx failure with its vendor and move to a fixed exit level; until then the stops will recur.

1. **MQSC** DISPLAY CHSTATUS(BANK.TO.CLEARING.SDR) read-only
Confirm STATUS(STOPPED) and the substate

◆ **PLANNED FIX** 5. **settlement-batch** QM_PAY01

Rejected at connect with reason 2035 on 25 Sep and 23 Oct, both on credential-rotation nights. Permanent fix: Add the settlement-batch secret to the rotation runbook so it is deployed before the 02:45 batch.

1. **MQSC** DISPLAY QMGR CONNAUTH read-only
Confirm which AUTHINFO object applies
2. **MQSC** DISPLAY AUTHINFO(SYSTEM.DEFAULT.AUTHINFO.IDPW0S) CHCKCLNT read-only
Confirm CHCKCLNT(REQUIRED); do not relax it

○ **CHECK** 6. **QM_PAY01** mqprd02

No dead-letter queue appears in this queue manager's export. Confirm DEADQ is set, so undeliverable messages are kept rather than blocking a channel.

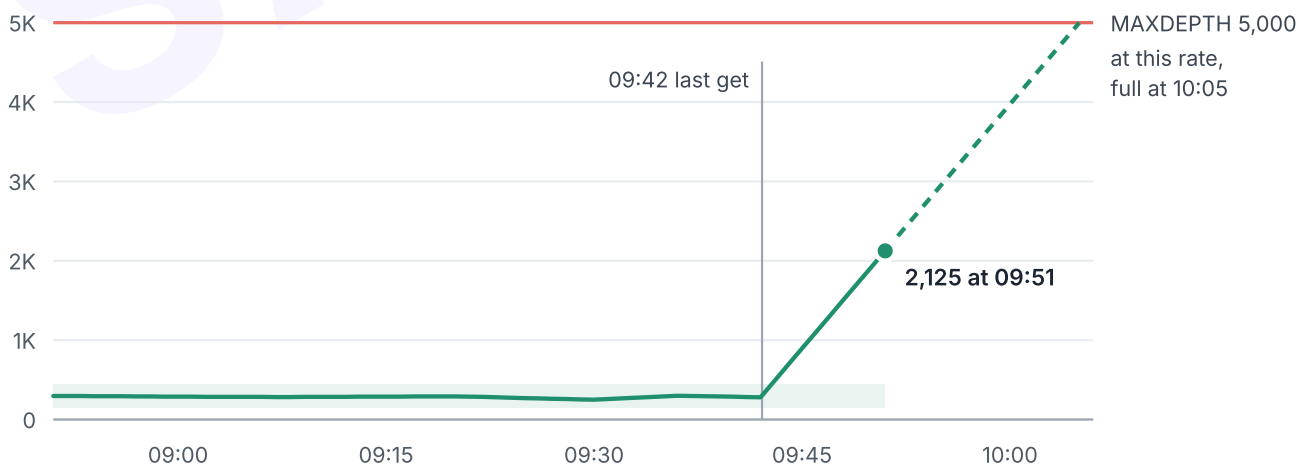
1. **MQSC** DISPLAY QMGR DEADQ read-only
Expect the name of a defined dead-letter queue

Risky depth trends

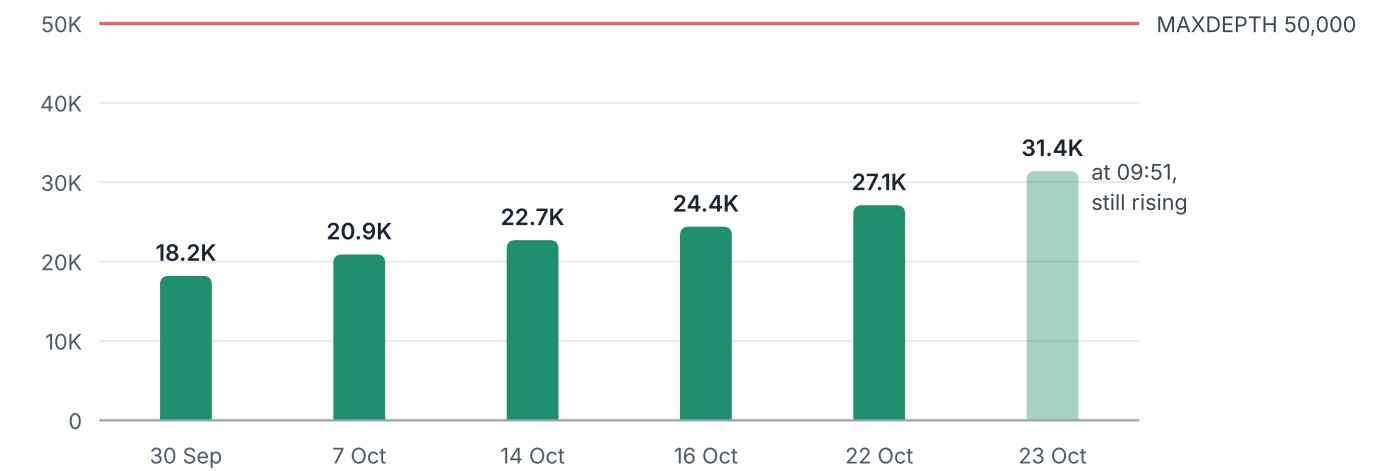
3 queues rising at export; two are on course for MAXDEPTH today.

QUEUE	DEPTH / MAX	RATE	RUNWAY
PAYMENTS.INBOUND.QL QM_PAY01	2,125 / 5,000	+205/min	14 min
ORDERS.OUTBOUND.QL QM_BANK01	31,400 / 50,000	+138/min	2 h 14 min
SETTLE.SHARED.QL MQP1	255,030 / CF-backed	+330/min	structure full 20:40

PAYMENTS.INBOUND.QL: normal range shaded; the consumer's last get was at 09:42, and depth then rose 3.0× faster than its fastest normal rise.



ORDERS.OUTBOUND.QL: peak depth on each weekday-morning backlog in 30 days. Each peak is higher than the last.



Channels with repeated stops or retries

9 channels in scope. One sender stopped 3 times in 30 days.

BANK.TO.CLEARING.SDR on QM_BANK01 stopped on 2 Oct, 11 Oct, 23 Oct. On 23 Oct: 03:14 RETRYING (AMQ9999E: channel ended abnormally; short retry 1 of 10); 03:14 STOPPED (Retry failed in the security exit; channel stopped); 03:22 RUNNING (START CHANNEL run by the on-call engineer). The sender channel's security exit (clrsecx) ended abnormally and the channel stopped. No network error came first, so the link to the clearing gateway was not the cause.

CHANNEL	TYPE	STATUS AT EXPORT	SINCE
PAY.SVRCONN QM_PAY01	SVRCONN	RUNNING	23 Oct 06:02
PAY.TO.BANK QM_PAY01	SDR	RUNNING	22 Oct 05:58
PAY.TO.BANK QM_BANK01	RCVR	RUNNING	22 Oct 05:58
BANK.TO.CLEARING.SDR QM_BANK01	SDR	RUNNING	23 Oct 03:22
SETTLEMENT.OUT.SDR QM_BANK01	SDR	RUNNING	22 Oct 06:00
CLEARING.TO.BANK.RCVR QM_BANK01	RCVR	INACTIVE (normal between returns)	23 Oct 06:31
BANK.SVRCONN QM_BANK01	SVRCONN	RUNNING	23 Oct 05:40
SETTLE.SVRCONN MQP1	SVRCONN	RUNNING	23 Oct 00:05
CARDS.SVRCONN MQP1	SVRCONN	RUNNING	22 Oct 04:50

Dead-letter and backout queues

Empty at export. One queue manager has no dead-letter queue in its export.

QUEUE	ROLE	DEPTH AT EXPORT
PAYMENTS.BACKOUT.QL QM_PAY01	Backout queue for poison messages	0
SYSTEM.DEAD.LETTER.QUEUE QM_BANK01	Dead-letter queue	0
MQP1.DEAD.QUEUE MQP1	Dead-letter queue	0

QM_PAY01: no dead-letter queue in the export. If DEADQ is not set, a message that can't be delivered stops its channel instead of being set aside. See the fix list.

Authority and configuration

Connection authentication is enforced where it should be; one application keeps missing credential rotations.

- **Keep:** QM_PAY01 requires credentials from client connections (CONNAUTH with CHCKCLNT(REQUIRED)). Don't relax it to fix the batch failures below.
- **Recurring:** settlement-batch was rejected with reason 2035 on 25 Sep and 23 Oct. The settlement-batch client connects through PAY.SVRCONN without credentials. QM_PAY01 requires them (CONNAUTH, CHCKCLNT(REQUIRED)), so every attempt fails with reason 2035 MQRC_NOT_AUTHORIZED.
- **Dependency:** BANK.TO.CLEARING.SDR runs a third-party security exit (clrsecx); its failures caused every stop in the channel section.

z/OS: coupling facility structures

Queue-sharing group PSG1, coupling facility CF01. One structure fills before tonight's drain.

STRUCTURE	SIZE	USED AT EXPORT	PROJECTED
SETLSTR1	4 GB	54.3%	full at 20:40, before the 22:00 drain
APPLSTR1	1 GB	38%	under the 80% threshold
CSQSYSAPPL	256 MB	21%	under the 80% threshold
CSQ_ADMIN	64 MB	9%	under the 80% threshold

CSQI004I on MQP1, 22 Oct 23:12: The nightly SETTLEOD job gets by correlation ID from a queue with no index, so each get scans past many messages and the drain runs slowly.

Chronic patterns

3 problems recurred in 30 days. Each needs its permanent fix, not the temporary one again.

Weekday-morning backlog on ORDERS.OUTBOUND.QL

6 times: 30 Sep, 7 Oct, 14 Oct, 16 Oct, 22 Oct, 23 Oct (fingerprint FP-7Q2K).

Until now: Restart orders-dispatch, or start a second instance by hand, each morning it happens.

Permanent fix: Run two orders-dispatch consumers all day (the queue already allows shared input), then confirm a weekday morning passes without the climb.

Security exit failure stops BANK.TO.CLEARING.SDR

3 times: 2 Oct, 11 Oct, 23 Oct (fingerprint FP-3MX9).

Until now: START CHANNEL(BANK.TO.CLEARING.SDR) after each stop.

Permanent fix: Raise the clrsecx failure with its vendor and move to a fixed exit level; until then the stops will recur.

settlement-batch rejected after credential rotation

2 times: 25 Sep, 23 Oct (fingerprint FP-8D1C).

Until now: Deploy the new credential by hand after the batch fails.

Permanent fix: Add the settlement-batch secret to the rotation runbook so it is deployed before the 02:45 batch.

Scope, method and limits

What was analysed, and what this report can and cannot tell you.

- **Scope:** QM_PAY01 (Linux (RHEL 9), MQ 9.3.0.15); QM_BANK01 (Linux (RHEL 9), MQ 9.3.0.15); MQP1 (z/OS, QSG PSG1, MQ 9.3.0). 14 queues, 9 channels.
- **Inputs:** error logs, MQ event messages, queue and channel status, configuration display output and CF structure usage for 24 Sep to 23 Oct 2026, exported at 09:51 CDT.
- **Read-only:** the analysis works from your exports. Nothing connects to your queue managers, and every command in this report is for your team to review and run.
- **Identifiers:** if you strip identifiers before sending, the report uses the same labels (for example [QUEUE_1]) and your label map translates them back.
- **This sample:** a simulated estate. The queue managers, queues, applications and numbers are demonstration data, the same estate as the live demo console.

Abendly advises; your engineers decide and run every change. Questions about this report: sales@abendly.io · abendly.io/health-check