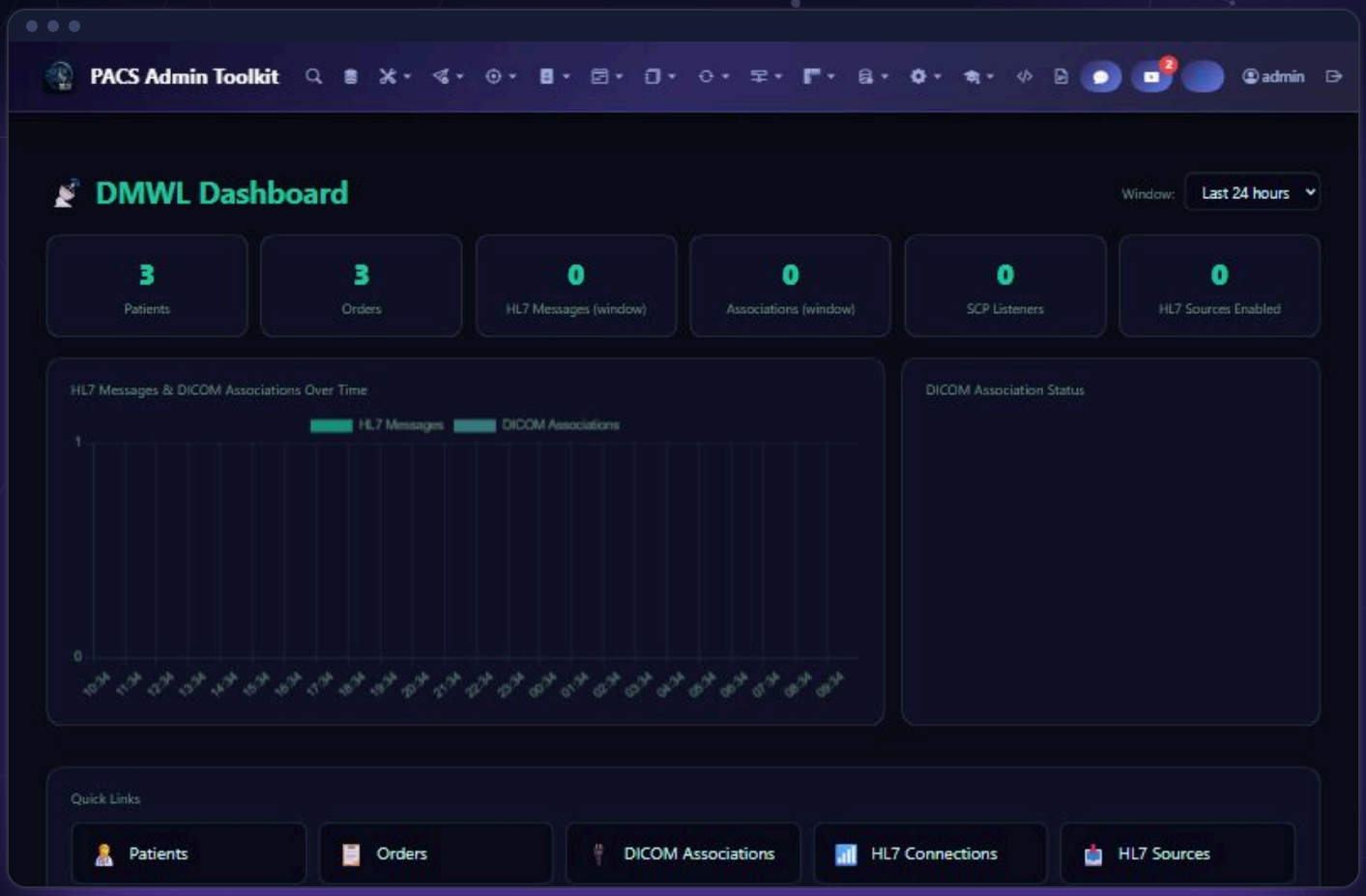
Orders & Worklist | ✧ Leads with Transform

Modality Worklist

HL7 orders in, the right worklist out to every modality, with nothing re-typed.



A complete DICOM Modality Worklist server fed by your RIS or EHR orders. Per-device rules, query rewriting and a built-in simulator give every room exactly the list it needs.

0
demographics re-typed at the scanner

Per room
lists shaped by device rules and morphers

Side by side
parity check before you switch over

Replaces: **Stand-alone worklist broker**

License module `DMWL`

THE CHALLENGE

Why it matters

Every exam that starts with a technologist typing a name, a birth date and an accession number is an exam that can end up in the PACS under the wrong patient. Those mismatches surface hours later as "broken" studies that a PACS administrator has to find, investigate and merge by hand.

Worklist brokers that should prevent this are often a black box: a modality sees too many orders, or none, and nobody can show why. Changing one is risky because there is no way to prove the new list matches the old one.

> IN SHORT
>
> A complete DICOM Modality Worklist server fed by your RIS or EHR orders. Per-device rules, query rewriting and a built-in simulator give every room exactly the list it needs.

CAPABILITIES

What it does

- **Orders straight from HL7**
  MLLP listeners receive ORM and ADT messages from the RIS, EHR or interface engine, acknowledge them and turn them into worklist orders.
- **Mappings you can test**
  Map any HL7 field to any patient, order or extra DICOM worklist field, with composites, macros and pattern replacements, and check every value against a real sample message before saving.
- **Rules by content, sender or time**
  HL7 rules choose a mapping per message, so a second hospital or a new order type gets its own handling without touching the first.
- **A list shaped for each room**
  Allowed devices admit modalities by AE title, IP range and port; device rules and Find Morphers rewrite their queries (today only, CR also shows DX, one station only).
- **Patient updates follow through**
  ADT updates and merges move orders to the surviving patient and correct the copies modalities receive.
- **Pull in other worklists**
  External providers query another worklist server every five minutes and serve those orders alongside your own.
- **Proof before go-live**
  The Pipeline Simulator walks a query through admission, rules, morpher and mapping; the Parity Checker asks the old worklist server and PATK the same question as every modality and compares the answers.
- **Everything logged**
  Every HL7 message (Routed, NoMatch, Error) and every modality association is recorded, with a dashboard over both.

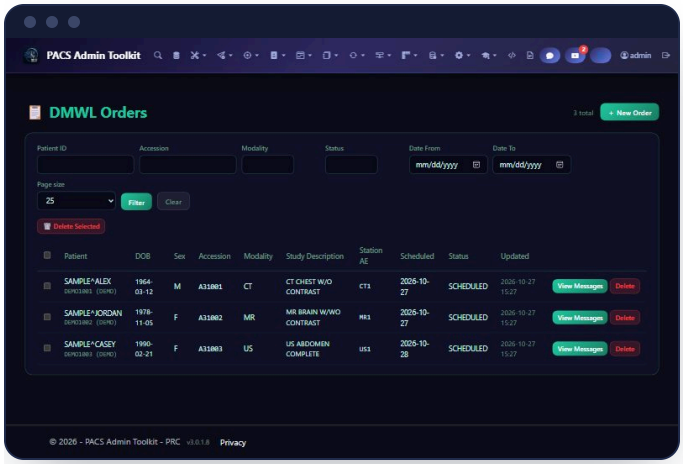
WORKFLOW

How it works

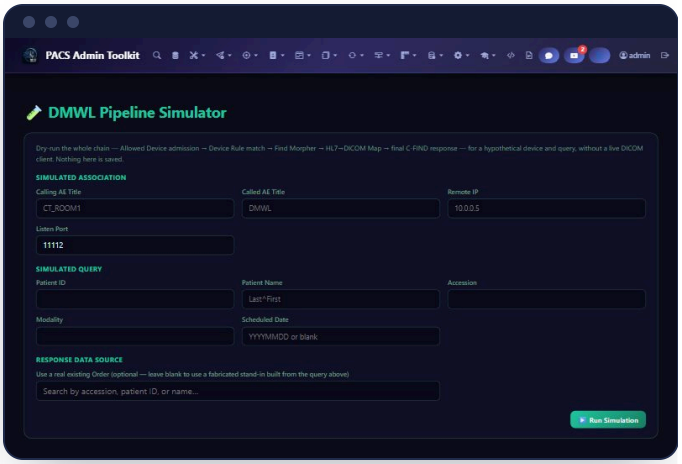
1. **Orders arrive**
   The RIS sends ORM/ADT over MLLP; PATK acknowledges each message and logs it.
2. **Rules and mappings**
   The matching HL7 rule picks a mapping that builds the patient and order.
3. **Modality asks**
   A scanner sends a C-FIND worklist query; its allowed-device entry admits it.
4. **Query shaped**
   A device rule applies a Find Morpher and response mapping for that room.
5. **List returned**
   Matching orders go back with the standard worklist fields and any extras you mapped.

IN THE PRODUCT

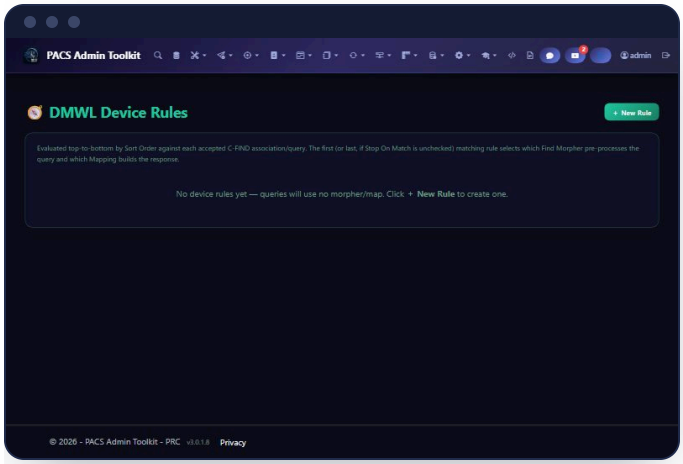
See it in action



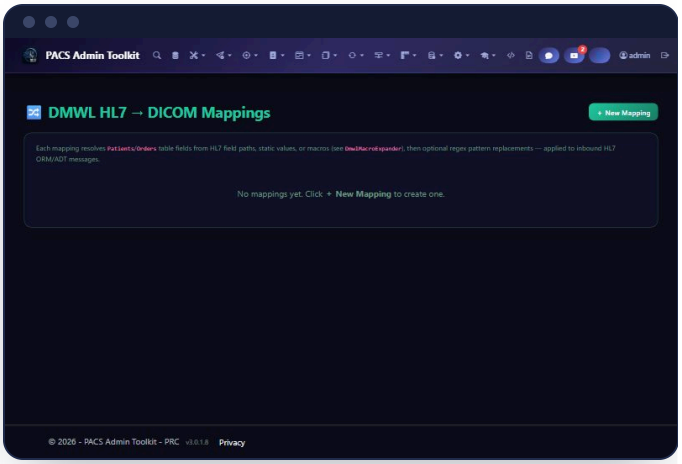
Orders, with every HL7 message that created or changed them



The Pipeline Simulator dry-runs a modality query, step by step



Device rules pick the query rewrite and response for each room



HL7 to DICOM mappings, tested against a real sample message

USE CASES

Where it pays off

Outpatient imaging centre, five modalities

CHALLENGE	Technologists type demographics for walk-in and scheduled patients; misspelled names create unmatched studies every week.
WITH PATK	Orders from the RIS land on each scanner's worklist; a Find Morpher limits each room to today's orders for its own station.
OUTCOME	**Demographics come from the order of record, and the weekly clean-up of mismatched studies shrinks to the exceptions.**

Hospital network adding a second facility

CHALLENGE	A newly acquired hospital sends orders from a different RIS with different field conventions.
WITH PATK	A second HL7 source and rule route that hospital's messages through their own mapping; device "serve only" settings keep each site's modalities on their own orders.
OUTCOME	**One worklist service for both sites, set up in an afternoon, with no change to the first site's configuration.**

Replacing an end-of-support worklist broker

CHALLENGE	The existing broker is out of support, but nobody can say exactly what each modality receives today.
WITH PATK	External providers pull the legacy worklist during transition; the Parity Checker compares both servers' answers for every modality's query.
OUTCOME	**A cut-over decided on evidence, room by room, with a documented match.**

3T

Trust · Truth · Transform

Trust

Modalities are admitted by AE title, IP range and port; senders by address; every message and association is logged, and patient merges correct the worklist copies too.

Truth

See exactly why a room got the list it did: the simulator shows each step, and the dashboard shows HL7 and modality traffic over time.

Transform

Technologists pick the patient instead of typing; administrators stop chasing demographic mismatches and change rules in minutes, not change tickets.

VALUE MODEL

What it can be worth

An example 120,000-exam-a-year department moving from manual entry (or an opaque broker) to a managed worklist.

Exams per year	120,000
Exams that would otherwise need manual demographic entry	25% (30,000)
Technologist time saved per manual entry	1.5 minutes
Mismatched studies avoided per year (0.5% of manual entries)	150
PACS administrator time to find and fix one mismatched study	20 minutes
Blended staff cost per hour	$45

$36,000

Estimated yearly value

Illustrative example. Your volumes, staffing and costs will differ; we will build this model with your own numbers.

DIFFERENTIATORS

Why it stands out

- **Testable, not a black box**
  The simulator and parity checker show what a modality receives before it does, which stand-alone brokers rarely offer.
- **Part of the same platform**
  Orders, routing, prefetch and reporting live in one product with one login, one audit trail and one support contract.
- **Changes without downtime**
  Rules, mappings and devices change from the browser; configuration exports copy a tested setup from test to production.
- **Built for multi-site**
  Facility and site ownership limits each modality to its own orders when Access Topology is licensed.

SPECIFICATIONS

At a glance

Standards	DICOM Modality Worklist (C-FIND), C-ECHO; HL7 v2 ORM and ADT over MLLP with ACK
Inputs	HL7 listeners (one or many), external worklist servers polled every 5 minutes
Controls	Allowed devices (AE, IP / CIDR, port, connection caps), HL7 rules, device rules, Find Morphers
Tools	Pipeline Simulator, Worklist Parity Checker, configuration import / export
Housekeeping	Hidden order statuses, result limits, order retention

See Modality Worklist with your own data

Ask for a guided demo or a trial license. PACS Admin Toolkit installs on your own Windows server in under an hour, and every module comes with step-by-step guides and in-app guided tours.

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