



ICU Medical  
**MedNet™**  
IV Medication Safety Software

**icu**medical  
human connections

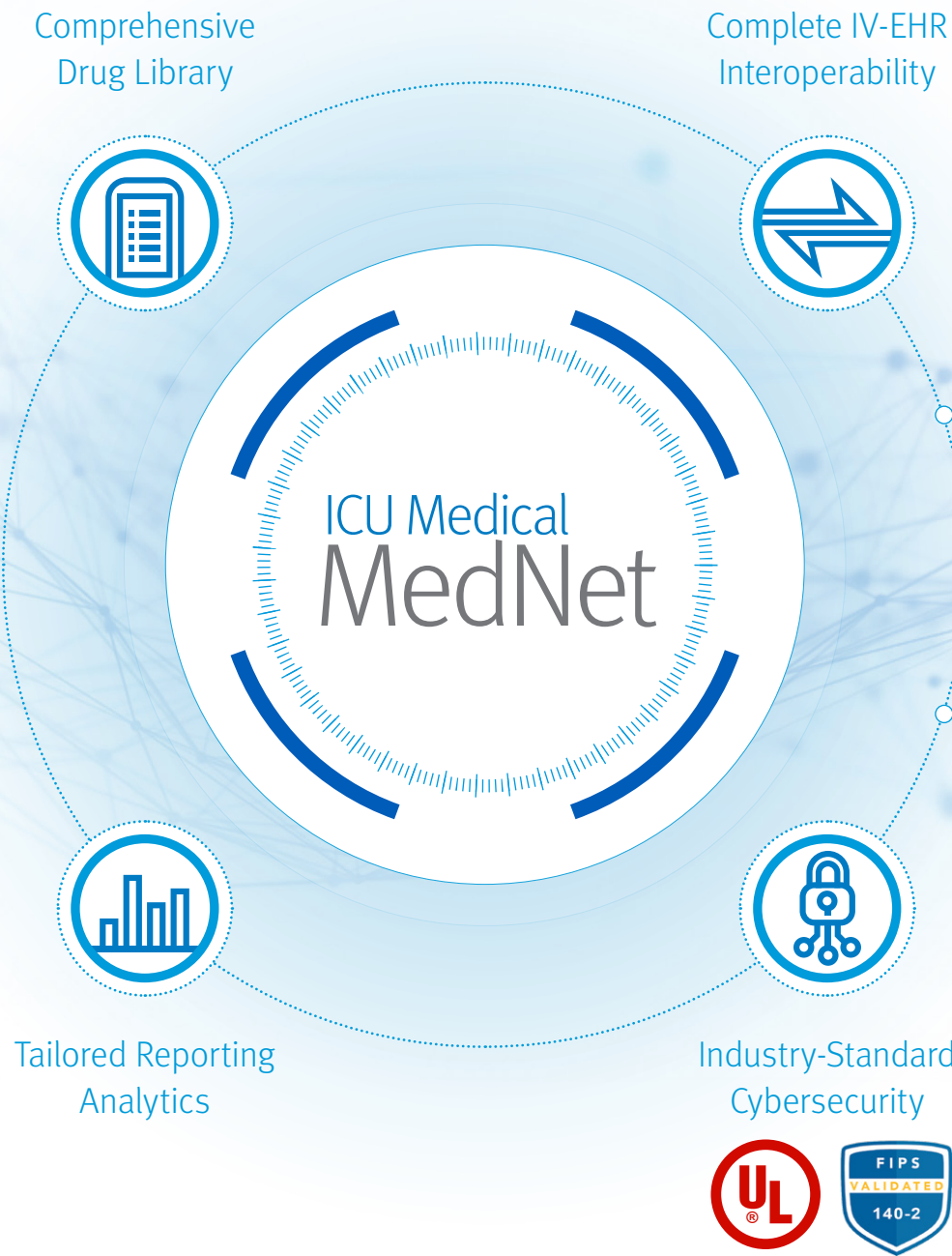


# Connect Smarter. Care Safer.™

## Our Integrated Platform helps you improve the safety and efficiency of medication delivery.

ICU Medical MedNet is an enterprise-class IV medication management platform for any sized healthcare system that can help you reduce medication errors, improve quality of care, streamline workflows, and reduce costs. ICU Medical MedNet is the vital link that connects our industry-leading IV smart pumps to your electronic health records (EHR), asset tracking system, and alarm notification platform with the largest array of integration partners.

As an integrated and scalable system, ICU Medical MedNet gives you confidence to integrate infusion therapy the way you provide care. By focusing on patient safety with simple, customisable workflows, ICU Medical MedNet helps you enhance patient safety, improve clinical efficiency, reduce costs, and advance clinical and IT best practices, providing you with an unmatched level of clinical flexibility.



### Plum 360™

2021, 2022, 2023 Best in KLAS Smart Pumps — EMR Integrated

2018, 2019, 2020, 2023 Best in KLAS Smart Pumps — Traditional



### Interoperability

IV-EHR interoperability with auto-programming, auto-documentation and Real Time Location Services (RTLS)



### Support

Complete training and support plus executive data analytics



# Versatile drug library management safely accommodates your workflows and minimises medication errors

Maximising the safety of IV medication delivery starts with drug library compliance. With ICU Medical MedNet, you automatically default into the drug library upon care area selection to assure hard and soft limits are used, improving compliance and maximising IV medication safety. A comprehensive drug library gives you the flexibility and granularity to meet the needs of varied patient populations, with predefined drug library settings that help ensure medication administration safety.

## Flexible drug library

ICU Medical MedNet's expansive options for medications and care areas, coupled with the ability to support up to 119 individual dosing units, means you can deliver and document medications as ordered while preserving your existing care areas and rule sets.

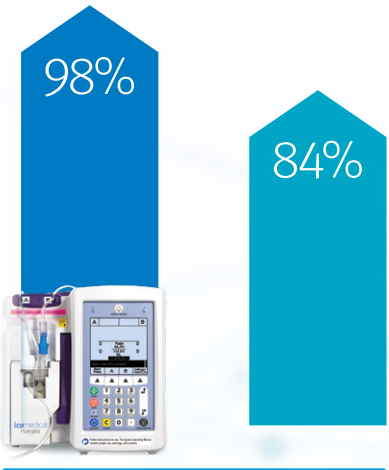
The flexibility of the drug library helps to simplify workflows and even gives you the ability to change care areas on a running infusion. Transferring from MedSurg to ICU is a delicate effort. Waiting for a pump to reboot should not be part of it.

## Maximised IV medication safety

With the Plum 360, safety limits can be defined for 40 different care areas with up to 400 medications per care area, allowing precise refinement of IV parameters, while the flexibility in the library allows for the administration of drugs that might otherwise not be properly documented and monitored.

## Exceptional drug library compliance

With ICU Medical MedNet IV safety software, your programming sequence automatically starts in the drug library, helping to ensure compliance of 98% with Plum 360.<sup>1</sup>



Plum 360

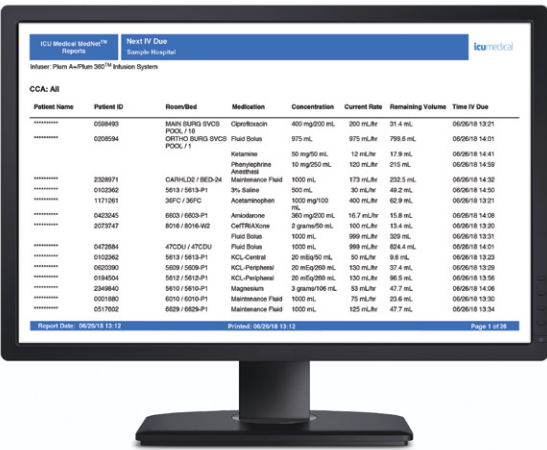
Industry Average<sup>2</sup>

<sup>1</sup> ICU Medical, Inc., Data on File.  
<sup>2</sup> Catalyze Care. Remedi page. Accessed 06/04/19



# Tailored reporting and analytics give you accurate, actionable data to drive clinical and financial best practices

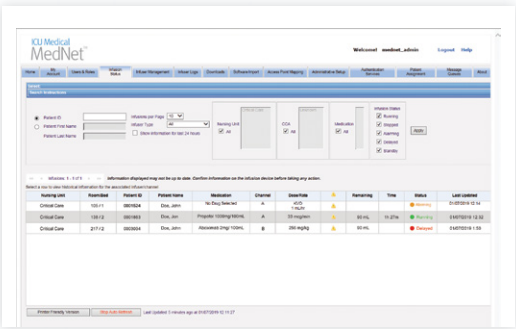
ICU Medical MedNet is the heart of your IV medication management system and an easily accessed source for all pump activity logging and analysis. It is not just a server—it is safety software and so much more—providing you with rich data that you own, offering in-depth insights that are meaningful to your hospital’s specific goals.



CCA: All	Patient Name	Patient ID	Room/Bed	Medication	Concentration	Current Rate	Remaining Volume	Time to Due
	0308483	MARY ELLEN DYCK	OPEDRUG	OPEDRUG	400 mg/200 mL	200 mL/hr	31.4 mL	05/05/18 13:21
	0308594	OSCAR T. B.	OPEDRUG	OPEDRUG	400 mg/200 mL	200 mL/hr	31.4 mL	05/05/18 13:21
	2308971	CAROL DE / BED-24	OPEDRUG	OPEDRUG	400 mg/200 mL	200 mL/hr	31.4 mL	05/05/18 13:21
	0102462	5613 / 5613-P1	3% Saline	3% Saline	500 mL	30 mL/hr	48.2 mL	05/05/18 14:50
	1171381	3870 / 3870	Acetaminophen	Acetaminophen	1000 mg/100 mL	400 mL/hr	103.8 mL	05/05/18 13:21
	0402045	6029 / 6029-P1	Anidone	Anidone	100 mg/200 mL	10.7 mL/hr	15.8 mL	05/05/18 14:08
	2073747	8016 / 8016-V0	CarfTRACINE	CarfTRACINE	2 gram/50 mL	100 mL/hr	13.4 mL	05/05/18 13:30
	0470884	47020 / 47020	Fluid Bolus	Fluid Bolus	1000 mL	999 mL/hr	824.4 mL	05/05/18 14:01
	0102462	5613 / 5613-P1	KCL-Central	KCL-Central	20 mEq/200 mL	30 mL/hr	8.8 mL	05/05/18 13:23
	0202380	5613 / 5613-P1	KCL-Peripheral	KCL-Peripheral	20 mEq/200 mL	150 mL/hr	171.4 mL	05/05/18 13:20
	0104004	5613 / 5613-P1	KCL-Peripheral	KCL-Peripheral	20 mEq/200 mL	150 mL/hr	96.5 mL	05/05/18 13:56
	2009640	5613 / 5613-P1	Magnesium	Magnesium	2 gram/100 mL	33 mL/hr	47.7 mL	05/05/18 14:08
	0201880	6029 / 6029-P1	Maintenance Fluid	Maintenance Fluid	1000 mL	75 mL/hr	23.8 mL	05/05/18 13:30
	0171602	6029 / 6029-P1	Maintenance Fluid	Maintenance Fluid	1000 mL	125 mL/hr	47.7 mL	05/05/18 13:34

## Comprehensive clinical reports

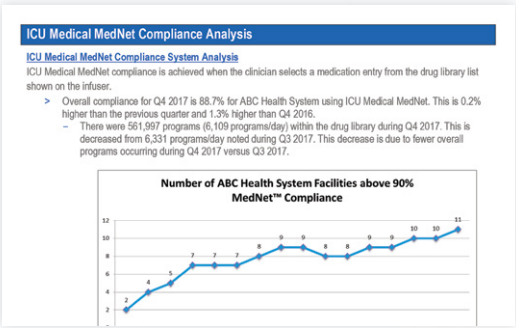
ICU Medical MedNet Performance Reports™ give you readily accessible information to highlight compliance, support quality initiatives, and better understand infusion practices.



Medication	Rate	Volume	Status	Alerts
OPEDRUG	200 mL/hr	31.4 mL	Running	None
OPEDRUG	200 mL/hr	31.4 mL	Running	None
OPEDRUG	200 mL/hr	31.4 mL	Running	None
OPEDRUG	200 mL/hr	31.4 mL	Running	None
OPEDRUG	200 mL/hr	31.4 mL	Running	None
OPEDRUG	200 mL/hr	31.4 mL	Running	None
OPEDRUG	200 mL/hr	31.4 mL	Running	None
OPEDRUG	200 mL/hr	31.4 mL	Running	None
OPEDRUG	200 mL/hr	31.4 mL	Running	None
OPEDRUG	200 mL/hr	31.4 mL	Running	None

## Flexible dashboards

Members of the care team can monitor infusion status away from the bedside to help inform clinical decision-making and enhance care.

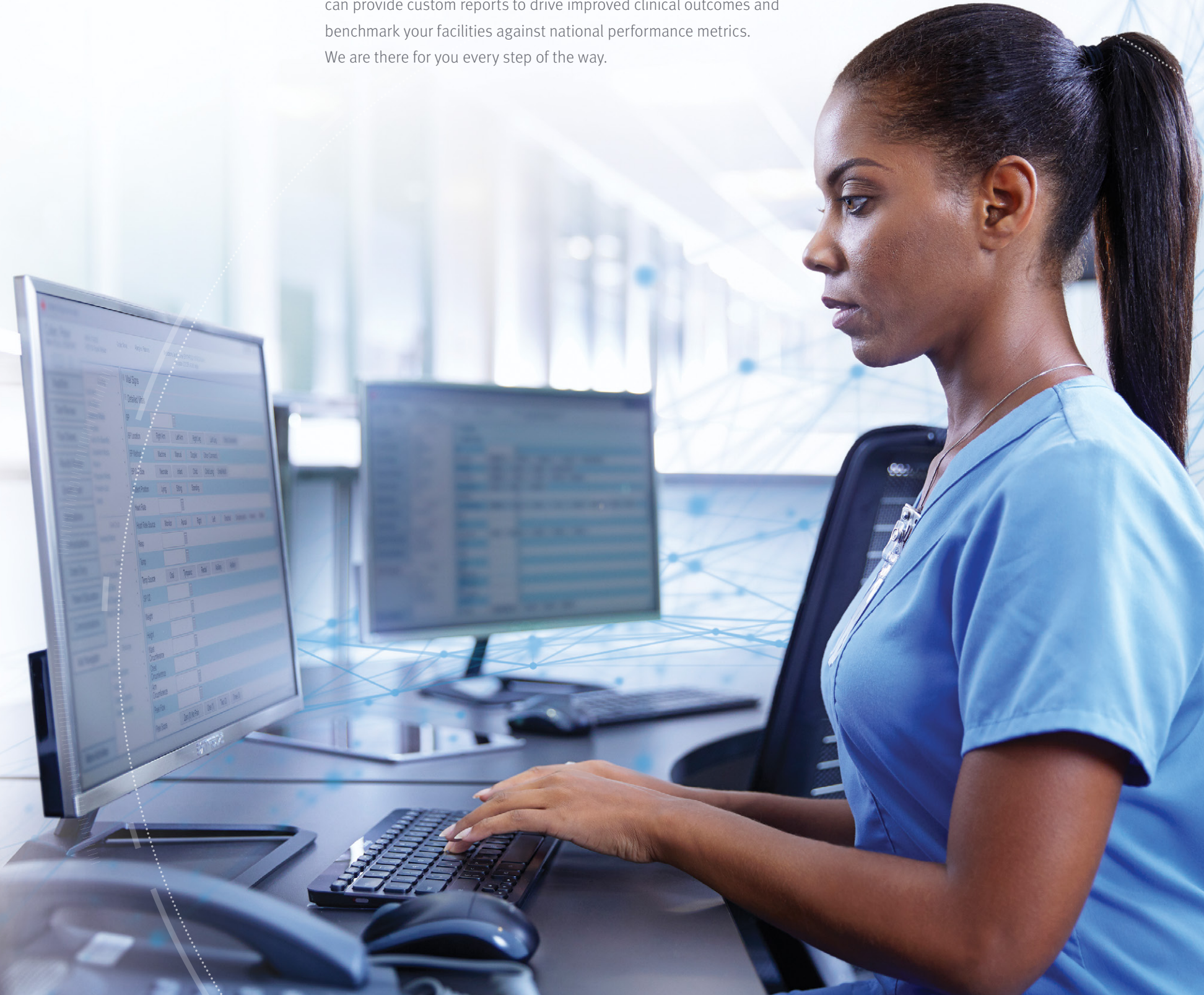


## Collaborative executive data analytics

Our analysts are your ongoing partners to develop actionable insights from your data to drive changes that will help safeguard your patients and caregivers.

Robust reporting and dashboards that assist you in assessing your operational efficiencies, clinical practices, fleet management, and medication safety

Connecting to a rich database of clinical activity opens up a new view to improving patient care. We pride ourselves on helping you to make the most of your data as well as delivering customised analysis—all based on your goals. Our pharmacy and nursing consultants can provide custom reports to drive improved clinical outcomes and benchmark your facilities against national performance metrics. We are there for you every step of the way.





# 75%

of pump programming errors  
can be eliminated with  
IV-EHR interoperability<sup>3</sup>

15% of remaining errors are  
addressed by the unique delivery  
system of the Plum 360

## Complete IV-EHR interoperability helps you reduce medication errors by stopping problems before they start

ICU Medical MedNet is the direct link between your pumps and your EHR. Programming an infusion directly from the EHR populates pharmacy-verified orders on the pump, reducing the risk of potentially catastrophic dosing errors while delivering cost savings and clinical improvements. Nurses using integrated IV pumps have greater confidence in the care they deliver by integrating complex workflows such as programming over a running infusion, including titrations, bolus doses, and secondary bags (both piggyback and concurrent).

### Experience in Interoperability can make a big difference

True IV-EHR interoperability is more than a one-way conversation—and ICU Medical has deep experience in implementing the IHE interoperability profiles, deploying our first interoperable system in 2008. We give you a direct path from physician order to the pump, near real-time documentation for decision-making and charge capture and real-time visibility into your pumps' locations and statuses.



#### Smart Pump Programming

- › Increase patient safety by programming the pump directly from pharmacy-verified orders
- › Save time and improve efficiency by eliminating manual pump programming steps
- › Build confidence in infusion delivery so your nurses can focus on relationships and care



#### Infusion Documentation

- › Automatically transfer infusion data to your EHR for faster, more efficient documentation
- › Maximise reimbursement revenue with accurate start/stop times
- › Rely on accurate secondary infusion delivery and data
- › Collaborate with care teams more efficiently

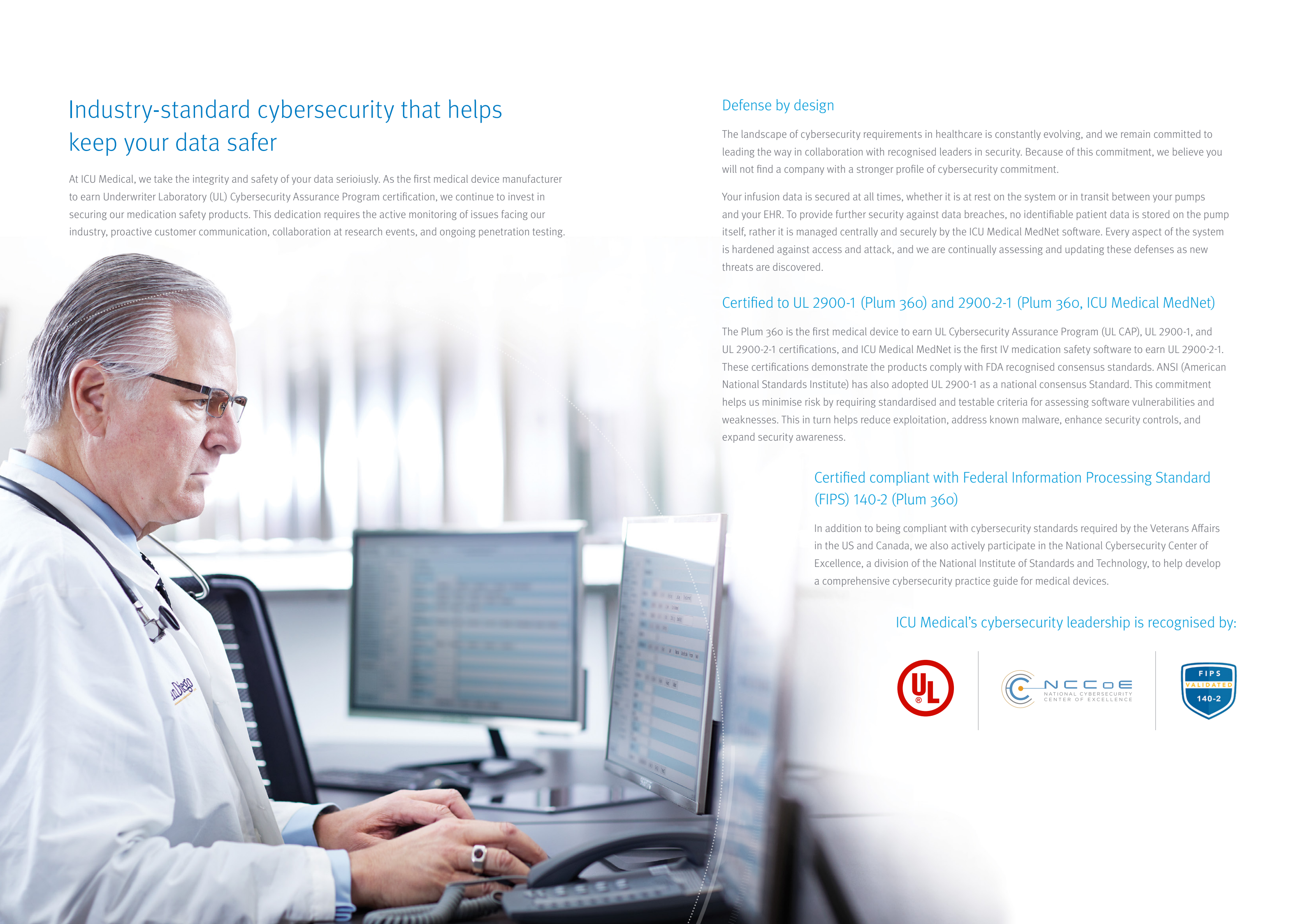


#### Real-Time Location Services

- › Reduce time spent looking for pumps with room-level location views
- › Identify pumps for use, maintenance, or distribution through status information (in use, standby, not in use, or unknown)

<sup>3</sup> ECRI Institute. Top 10 Health Technology Hazards for 2013. Health Devices. 2012;41(11):342-365.





# Industry-standard cybersecurity that helps keep your data safer

At ICU Medical, we take the integrity and safety of your data seriously. As the first medical device manufacturer to earn Underwriter Laboratory (UL) Cybersecurity Assurance Program certification, we continue to invest in securing our medication safety products. This dedication requires the active monitoring of issues facing our industry, proactive customer communication, collaboration at research events, and ongoing penetration testing.

## Defense by design

The landscape of cybersecurity requirements in healthcare is constantly evolving, and we remain committed to leading the way in collaboration with recognised leaders in security. Because of this commitment, we believe you will not find a company with a stronger profile of cybersecurity commitment.

Your infusion data is secured at all times, whether it is at rest on the system or in transit between your pumps and your EHR. To provide further security against data breaches, no identifiable patient data is stored on the pump itself, rather it is managed centrally and securely by the ICU Medical MedNet software. Every aspect of the system is hardened against access and attack, and we are continually assessing and updating these defenses as new threats are discovered.

## Certified to UL 2900-1 (Plum 360) and 2900-2-1 (Plum 360, ICU Medical MedNet)

The Plum 360 is the first medical device to earn UL Cybersecurity Assurance Program (UL CAP), UL 2900-1, and UL 2900-2-1 certifications, and ICU Medical MedNet is the first IV medication safety software to earn UL 2900-2-1. These certifications demonstrate the products comply with FDA recognised consensus standards. ANSI (American National Standards Institute) has also adopted UL 2900-1 as a national consensus Standard. This commitment helps us minimise risk by requiring standardised and testable criteria for assessing software vulnerabilities and weaknesses. This in turn helps reduce exploitation, address known malware, enhance security controls, and expand security awareness.

## Certified compliant with Federal Information Processing Standard (FIPS) 140-2 (Plum 360)

In addition to being compliant with cybersecurity standards required by the Veterans Affairs in the US and Canada, we also actively participate in the National Cybersecurity Center of Excellence, a division of the National Institute of Standards and Technology, to help develop a comprehensive cybersecurity practice guide for medical devices.

ICU Medical’s cybersecurity leadership is recognised by:





# ICU Medical and you: committed to helping you make the most of your investment in IV-EHR interoperability

Our commitment to you doesn't end with the purchase. We provide a dedicated support organisation with a wealth of knowledge, resources, and technical training opportunities for hands-on professional services not only during implementation, but throughout the life of your solution.

When you choose ICU Medical, you are choosing a true partner who will be with you every step of the way, offering:

## Proven and Repeatable Support

- › First hospital to go live with IV-EHR interoperability (2008)
- › Higher customer satisfaction with integration reported (KLAS)
- › Strong hospital relationships mean shared experiences
- › Expert drug library import to shorten project time

## Training Services

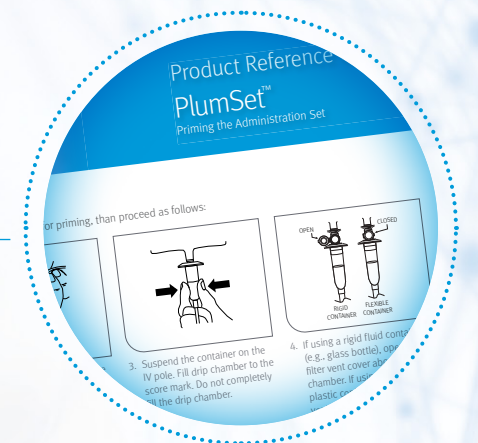
- › Nursing and pharmacy clinical training
- › Software interface guidance
- › Flexible web-based, on-site, and train-the-trainer programs
- › Specialised clinical engineering training

## IT Services

- › Wireless expertise
- › Test environments
- › End-to-end testing
- › Ongoing support



In-Service Training Videos



Step-by-Step Instructional Posters



Live Clinical Training with Documentation



# ICU Medical MedNet

Connect Smarter. Care Safer.

## Delivering a platform designed to provide safer care while empowering you to improve patient outcomes

When it comes to IV therapy, medication safety is your main concern. We can help. ICU Medical MedNet lets you keep your patients safer with a comprehensive, flexible drug library and full IV-EHR interoperability that includes smart pump programming, infusion documentation, and alarm forwarding. In addition, our industry-leading cybersecurity and professional services help you maximise data security and make the most of your investment.

See how ICU Medical MedNet and our team of data analysts and clinical consultants can make a real difference in the way you manage IV medication delivery to:



### Enhance Patient Safety



### Improve Clinical Efficiency



### Advance Clinical and IT Practices



### Reduce Costs

The product complies with current legislation and has the corresponding CE marking.  
For additional information, warnings and/or safety precautions, refer to the manufacturer's Instructions for Use.

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