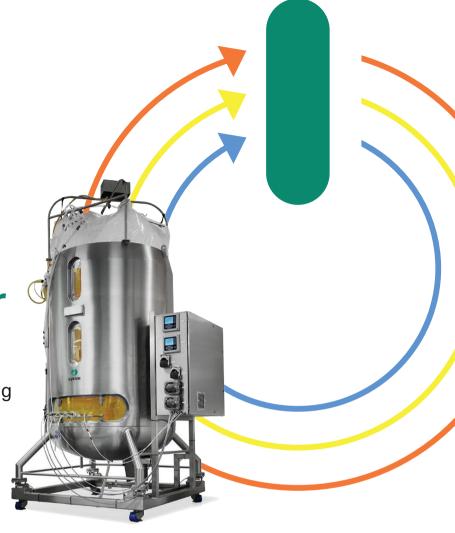
## OptiRun™ Service solutions

Xcellerex™ XDR 50L to 2000L software/server upgrade

Is your Xcellerex™ system running on yesterday's bits and bytes?



You regularly upgrade your laptop. Now you can bring your XDR's software and server up to today's standards to extend its LifeCycle.

Consider how much is riding on your XDR system. When it's dependent on aging hardware or an unsupported operating system, you're unable to run our latest software. Even more troubling, your system is at risk: a failure could cause weeks, or months, of unplanned downtime. Take timely action now.

Schedule your Xcellerex<sup>™</sup> 50L to 2000L bioreactor system upgrade to keep your equipment in prime condition with enhanced functionality.



**Extended lifecycle** 



Service traceability



**Maximized productivity** 

## Key benefits of upgrading now



Reduced risk of downtime



Increased cost efficiency



Controlled upgrade process



Increased performance reliability



Supported compliant technology



Depending on the software version of your current system (see table below), the new software may give additional functionality. For example, if your current XDR has software version V4.0, then the upgrade gives you new functionality and bug fixes introduced from V5.0 to 7.2.0. For example, V5.0 introduced Recipe Management and Alarms and Events Excel report. V6.0 introduced setpoint tables to Recipe Management and a multi-vessel overview screen.

V3.1 Nov 2017	V4 Se	.0 p 2018	V5 Ma	i.0 ar 2019	V6 Q4	.0 2019		.1.1 t 2020		.2.0 I 2022
Dual-panel     Electrical     safety	1.	Upgraded to Wonderware™ 2014 R2	1. 2.	Recipe Management System	1.	Revised dual purpose Configurable	1.	Bug fixes	1.	Upgraded to Windows™ server 2019
Gas and electrical	2.	Upgraded to Windows™		interlocks- known state		AUX 1, AUX 2 fields			2.	Upaded to Excel 2019
panel separation		server 2012 R2 and Windows™	3. 4.	Bug fixes XDR-200 Dual	3.				3.	
2. Gravimetric		10 IOT		purpose		addition of				2019
feed 3. Batch	3.	User Security harmonization	5.	Added Excel report	4.	setpoint tables Added SQL			4.	Updated to AVEVA™ 2020
(non-S88) ID improvemen		21 CFR part 11 review	6.	Added alarm and event		reporting services			5.	Updated to Recipe
4. Control mapping	5.	Privacy and security	7.	Excel report PLC firmware	5.	Embedded recipe manage	r			Management 2020
(update) 5. Report		enhancements (DEPS)		update to	6.	in HMI Added OUR			6.	OPC config updates
generation (confirm	6.	10L software release	8.	21 CFR part	0.	functionality back			7.	Reporting Excel upgrade
Excel)		release		and formal	7.	Ensured VCD is				to support
6. Support of up to three			9.	paperwork USB/ethernet	8.	compatible Multi-vessel				new alarm and event
external scales				lock addition		overview screen added			8.	hystorizing SQL rename
<ol><li>Rermote OPC connectivity</li></ol>	0				9.	MC4 high flow option				script updates
,					10.	(2000L only) 3 KG and 30 KG	i		9.	Bug fixes
						scale support				

The new server is warranted for three years.

If your system is in cGMP environment, a Change Control Protocol (CCP) is carried out after the upgrade work is completed, ensuring the system is left in a validated state.

Note: Once the X-station is updated to latest software, the old data cannot be viewed within the new software. Old data can be exported to Excel or viewed within the old software since old server will be left with you. Only standalone standard XDR systems can be upgraded using this kit. For Custom XDR system upgrade options, please contact Cytiva.

AUX = Auxillary Input
CFR = Code of Federal
Regulations
DEPS = Design Engineering
Privacy and Security
HMI = Human Machine Interface

ISB = Universal Serial Bus
MFC4 and MFC = Mass Flow
Controller
OUR = Oxygen Uptake Rate
OPS = Open Platfrom
Communications

PLC = Programmable Logic Controller USD = Universal Serial Bus VCD = Viable Cell Density SQL = Structured Query Language

The upgrade kit includes the following

- All necessary software and licenses (including AVEVA™ Recipe management 2020, SQL server 2019, and Windows™ server 2019)
- Documentation (electronic format): Operating manual, Recipe manual, Security manual, updated general specification page to add to existing turn over package
- Secure Digital (SD) cards for PLC
- Other items required for installation (e.g., cables)

Additionally, the new software replaces the out-of-date Windows™ Server 2012 (which goes out of Microsoft support on Oct. 10, 2023) with Windows™ server 2019. Other updated software include: AVEVA™ (Wonderware™) 2020, SQL Server™ 2019 and update to Recipe Management 2020.

Ask your Cytiva representative for more information. cytiva.com/service

Upgrade your system to extend the life of your Xcellerex™ system

## cytiva.com/service

Cytiva and the Drop logo are trademarks of Life Sciences IP Holdings corp. LLC or an affiliate doing business as Cytiva.

OptiRun and Xcellerex are trademarks of Global Life Sciences Solutions USA LLC or an affiliate doing business as Cytiva.

AVEVA and Wonderware are trademarks of Aveva Group Plc. SQL Server and Windows Server are trademarks of Microsoft group of companies).

©2023 Cytiva

For local office contact information, visit cytiva.com/contact

