

This document lists all of the mandatory and optional IPC-CFX capabilities for equipment to be listed on the IPC-CFX QPL. Read IPC-2591 for explanations of these capabilities and messages.

Legend

M – Required for all machines in class

MR – Required if equipped with a barcode/RFID reader

O – Optional capability

Blank – Not applicable to machine class

				Endpoint Class											
Category	Capability	Generic Equipment Endpoint	Automated Labeler / Laser Marker	Stencil Printer	Solder Paste Inspection (SPI)	SMT Mounter (Pick and Place)	Automated Optical Inspection (AOI/AXI)	Solder Reflow Oven	Reflow Profiling	Selective Solder	Through- Hole Component Insertion (THT)	Test Equipment	Conformal Coating	Cleaning	
CFX Core	Core Communications	М	М	М	М	М	М	М	М	М	М	М	М	М	
	WIP Tracking	М	М	М	М	М	М	М	М	М	М	М	М	М	
	WIP Identification	MR	М	MR	MR	MR	MR	MR	MR	MR	MR	MR	MR	MR	
Track and Trace	Unit Initialization	0	М	0	0	0	0	0	0	0	0	0	0	0	
	Panelized Unit Initialization	0	М	0	0	0	0	0	0	0	0	0	0	0	
	Operator Tracking	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Equipment Data Tracking	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Unit Disqualification / Scrapping	0	0												



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	Detailed Activity Tracking	0	0	0	0	0	0	0	0	0	0	0	0	0
	Material Trace with Internal Setup	0	0	0		0		0	0	0	0	0	0	0
	Exact Material Trace with Internal Setup	0				MR					MR			
	Exact Material Trace with External Setup	0				М					М			
	Tool Trace	MR	0	MR		0			0	0	0	0	0	0
	Process Route Validation	0	0	0	0	0	0	0	0	0	0	0	0	0
Process Interlocking	Unit Status Validation	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unit Trace Validation	0	0	0	0	0	О	0	0	0	0	0	0	0
	Basic Recipe Visibility	М	М	М	М	М	М	М	М	М	М	М	М	М
Recipes	Remote Recipe Selection	0	0	0	0	0	0	0	0	0	0	0	0	0
	Remote Recipe Management	0	0	0	0	0	О	0	0	0	0	0	0	0
6.1	Internal Setup Validation	0	0	0	0	0	0	0	0	0	0	0	0	0
Setup Validation	Offline Setup					0					0			
	External Setup Validation	0	0	0		0					0			
Blocking and Locking	Material Blocking for External Setup	0	0	0		0					0			



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	Material Blocking for Internal Setup	0	0	0		0					0			
	Station Locking	0	0	0	0	0	0	0	0	0	0	0	0	0
Personalization	Unit Personalization					0					0	0		
Station Information	Station Performance Reporting	М	М	М	М	М	М	M	M	М	M	М	М	М
	Advanced Station Performance Reporting	0	0	0	0	0	0	0	0	0	0	0	0	0
	Station Configuration Management	0	0	0	0	0	0	0	0	0	0	0	0	0
	Station Maintenance Tracking	0	0	0	0	0	0	0	0	0	0	0	0	0
	Energy Consumption Tracking	0	0	0	0	0	0	0	0	0	0	0	0	0
	Production Unit Inspection				М		М							
	Automated Optical Inspection (AOI/AXI)						М							
Test and Inspection	AOI Component Offset Measurement						0							
	Solder Paste Inspection				М									
	Production Unit Test											М		



Specialized Processing	Solder Paste Reflow Processing			-	-	M					
	Solder Paste Reflow Profiling						М				
	Selective Solder Processing							М			
	Solder Paste Printing		М								
	Conformal Coating									М	
	Cleaning										М