

IoT Device Firmware Review Checklist

General Information

Project Name	
Firmware Version	
Date	
Reviewer	

Checklist

Item	Status	Remarks
Secure Boot is implemented and tested		
Firmware integrity validation upon startup		
Only necessary device drivers and services enabled		
All default credentials have been removed or changed		
Secure communication protocols are used (e.g., TLS/SSL)		
Unnecessary network ports/services are closed/disabled		
Firmware update process is authenticated and verified		
Rollback protection implemented		
Sensitive data is encrypted at rest and in transit		
Debugging interfaces are disabled or protected		
No hardcoded credentials or secrets in firmware		
Firmware cryptographically signed		
Logging and audit mechanisms in place		
Error handling does not leak sensitive information		
Resource (memory, buffer) management is secure		
Input validation and sanitization performed		
Third-party components/libraries up to date and reviewed		
Vulnerability assessments and penetration testing conducted		

Additional Notes

Reviewer Sign-off

Name	
Signature	
Date	