XCareBoT

Microsoft Azure

On-Duty Staffs

Factory SCADA Systems → Alarms

Schedules

NISE70

Maintenance Staffs

Main Features

- Rapid Alarm and Task Assignment
- Flexible to link SCADA systems
- Alarm/Scheduling Management
- One-Way alarm Message Bulletin board*
- On-duty Staff Management
- Staff and Group Management

- Statistic Charts for Alarm Analysis
- Group Video Conference*
- Restful API Service
- SSL Secured
- Secure Communication Protocol by Azure Sphere Module**
  *Microsoft Teams build-in function
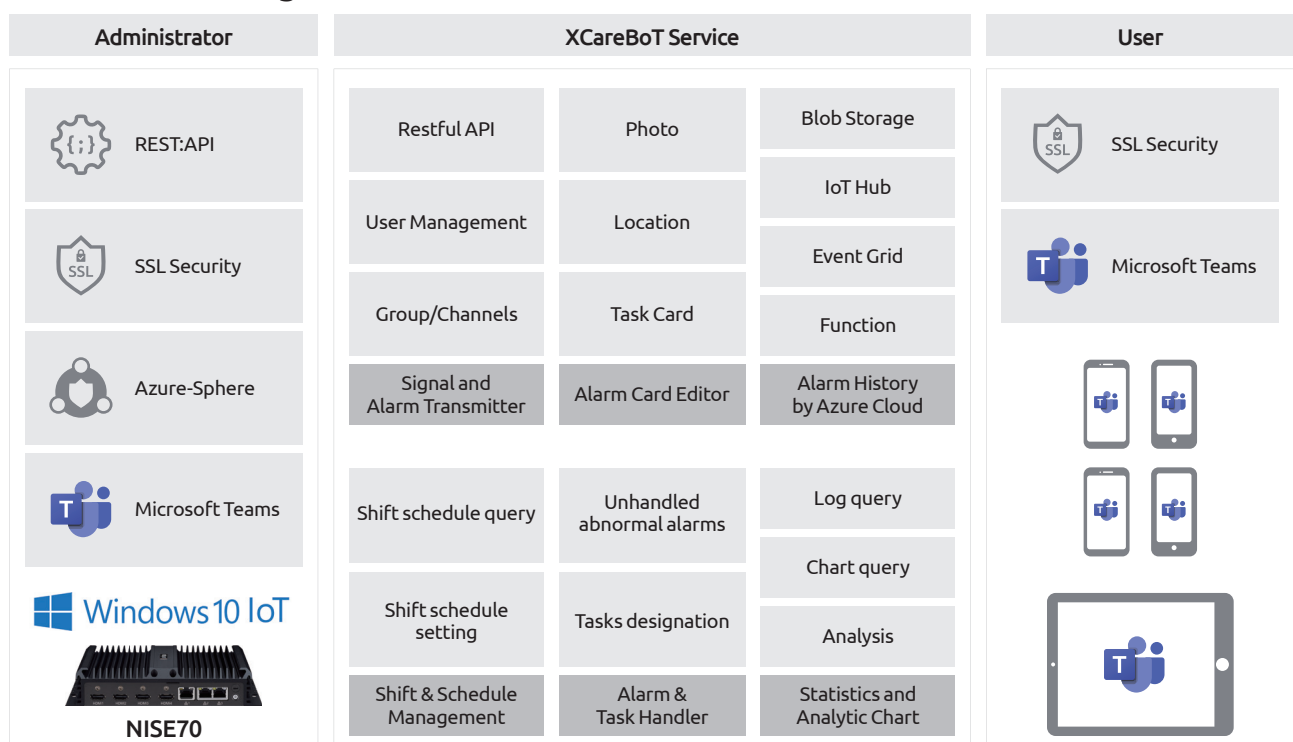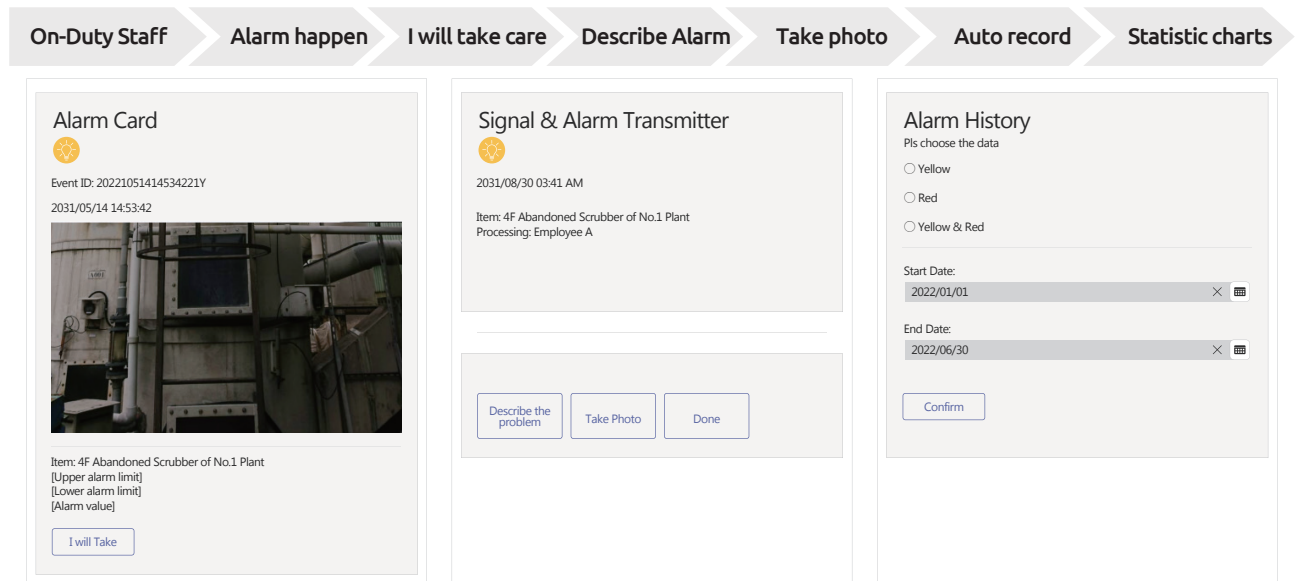 **Azure Sphere Module have Mini-PCI and USB interface

Product Overview

XCareBoT is a Notification Bot for Factory Alarms on Microsoft Teams, the main scenario is to collect the field signals and alarms from SCADA systems then transmit to managers, operators, on-duty staffs for issues handling and management. The users can receive the notification in real-time and report the status and actions accordingly. Further more, the notification can be recorded in alarm card as history for tracking and analysis. The advancing functions allow the manager to manage and group the users by tasks, arrange the shift and schedule with clear interface, and analyze the alarm history to reduce the anomaly conditions. With the chat bot SaaS, the factory can improve the alarm responding time and issues handling efficiency with less loading and significant on-duty staffs.

Software Building Blocks

Administrator	XCareBoT Service			User
REST:API	Restful API	Photo	Blob Storage	SSL Security
			IoT Hub	
SSL Security	User Management	Location	Event Grid	Microsoft Teams
	Group/Channels	Task Card	Function	
Azure-Sphere	Signal and Alarm Transmitter	Alarm Card Editor	Alarm History by Azure Cloud	
Microsoft Teams	Shift schedule query	Unhandled abnormal alarms	Log query	
			Chart query	
	Shift schedule setting	Tasks designation	Analysis	
Windows 10 IoT	Shift & Schedule Management	Alarm & Task Handler	Statistics and Analytic Chart	
NISE70				

User Scenario

On-Duty Staff ➤ Alarm happen ➤ I will take care ➤ Describe Alarm ➤ Take photo ➤ Auto record ➤ Statistic charts

Alarm Card
💡

Event ID: 20221051414534221Y

2031/05/14 14:53:42

Item: 4F Abandoned Scrubber of No.1 Plant
[Upper alarm limit]
[Lower alarm limit]
[Alarm value]

[I will Take]

Signal & Alarm Transmitter
💡

2031/08/30 03:41 AM

Item: 4F Abandoned Scrubber of No.1 Plant
Processing: Employee A

[Describe the problem] [Take Photo] [Done]

Alarm History
Pls choose the data
○ Yellow
○ Red
○ Yellow & Red

Start Date:
2022/01/01 ✕ 📅

End Date:
2022/06/30 ✕ 📅

[Confirm]

Specifications

Functions	Description
Signal and Alarm Transmitter	- Setup Restful API from SCADA/PLC/Sensor to update status from field. - Send alarms to a specific Users, Groups
Alarm Card Editor	- Attach asset photos and location information to the alarm task card
Shift & Schedule Management	- Send corresponding Alarms to USERs for different shifts
Alarm & Task Handler	- For unhandled abnormal alarms, administrator can designate additional multi-level receiving personnel
Statistics and Analytic Chart	- Query and analyze the number of alarm occurrences and graphs by daily/weekly/monthly/annual
Alarm History by Azure Cloud	- Set alarm parameters through Azure IoT Hub, Event Grid, Function - Store photos and locations of Alarm abnormal events through Azure Blob Storage

Ordering Information

Functions	Standard, PN: MISCNRE0014XR	Professional, PN: MISCNRE0015XR
Signal and Alarm Transmitter	O	O
Alarm Card Editor	O	O
Shift & Schedule Management	-	O
Alarm & Task Handler	-	O
Statistics and Analytic Chart	-	O
Alarm History by Azure Cloud	-	O
Subscription Fee	USD 10/Month	USD 100/Month
Bundle Hardware is NISE 70-T01	P/N: 10J00007000X0	P/N: 10J00007000X0