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|  | **I-ISMS Implementation Revision** 1 |

**NP Factory Ltd.**

**Factory Floor**

**Industrial Information Security Management System Policy**

Industrial Automation Asset Register

Nathan Pocock

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Executive Summary

<<insert summary here>>

Revision History

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| Revision | Author | Date |
| Initial creation | Nathan Pocock | 8-Sep-16 |
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# Asset Register

## Instructions

1. Open the document properties and then:
   1. change the company and author properties
   2. click the “custom” tab
   3. set all remaining properties
   4. close the window
2. Review the *Asset register overview,* below
3. Look at the appendices for examples:
   1. Appendix A: Computer Assets Sample on page 11
   2. Appendix B: Controller Assets Sample on page 12
   3. Appendix C: Device Assets Sample on page 13
   4. Appendix D: Software Assets Sample on page 14
4. Conduct an analysis of the industrial automation equipment on your factory floor
5. Complete the asset registers for the following: (modify the table columns as needed)
   1. Computer Assets on page 7
   2. Controller Assets on page 8
   3. Device Assets on page 9
   4. Software Assets on page 10
6. Delete this instruction page
7. Delete the appendices
8. Save the document

## Asset register overview

This asset register is exclusively for the definition of assets with interfaces that enable human interaction, communications, data sharing, or service invocation, such as:

* Network infrastructure: switches/hubs, routers, firewall appliances, modems, etc.
* Computers: Servers, Laptops, handhelds, etc.
* PLCs/controllers
* Industrial equipment

To determine if an asset should appear in this list, consider the following questions:

* Does the device have an Ethernet, serial, WIFI, USB, or other communications capability?
* Does the device expose a user-interface such browser-based interface or screens in an application?
* Does the device provide an ability to be upgraded, such as a firmware, operating system, or application?

# Computer Assets

Figure 1 Computer Systems Assets

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Asset Id | Description | Priority | Network Info | Software | Location | Point of Contact | Make | Model |
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# Controller Assets

Figure 2 Controller/PLC Assets

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Asset Id | Description | Priority | Network Info | Ladder Location | Location | Point of Contact | Make | Model |
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# Device Assets

Figure 3 Networked Industrial Machinery/Devices

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Asset Id | Description | Network Info | Location | Point of Contact | Make | Model |
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# Software Assets

Figure 4 Software/System Assets

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Asset Id | Description | Category | Type | Interfaces | Sends data to | Receives data from | Point of Contact | Vendor | Version |
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# Appendix A: Computer Assets Sample

Figure 5 Sample - Computer System Assets

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Asset Id | Description | Priority | Network Info | Software | Location | Point of Contact | Make | Model |
| 1 | Supervisory system over factory floor process #A | High | DHCP | Wonderware SCADA System | Office A | Billy-bob Smith | Dell | T-1000 |
| 2 | Redundant supervisory system over factory floor process #A | High | DHCP | Wonderware SCADA System | Office A | Fred Jones | Dell | T-1000 |
| 3 | Supervisory system over factory floor process #B | High | DHCP | Wonderware SCADA System | Office A | Billy-bob Smith | Dell | T-1000 |
| 4 | Redundant supervisory system over factory floor process #B | High | DHCP | Wonderware SCADA System | Office A | Fred Jones | Dell | T-1000 |
| 5 | General purpose workstation for plant floor manager | Med | DHCP | MS Office, Visio | Office B | Jim Black | Dell | T-1000 |
| 6 | Community workstation for general use | Low | DHCP | MS Office | Hallway | Jim Black | Dell | T-1000 |
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# Appendix B: Controller Assets Sample

Figure 6 Sample - Controller/PLC Assets

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Asset Id | Description | Priority | Network Info | Ladder Location | Location | Point of Contact | Make | Model |
| 1 | PLC for controlling in-feed/out-feed of Process #A | High | Static 192.168.100.25 | [\\server\share\path\to\program1](file:///\\server\share\path\to\program1) | Process #A | Fred Jones | Rockwell | Controllogix |
| 2 | Redundant PLC for in-feed/out-feed of Process #A | High | Static 192.168.100.35 | [\\server\share\path\to\program1](file:///\\server\share\path\to\program1) | Process #A | Fred Jones | Rockwell | Controllogix |
| 3 | PLC for controlling process #A manufacturing | High | Static 192.168.100.26 | [\\server\share\path\to\program2](file:///\\server\share\path\to\program2) | Process #A | Fred Jones | Rockwell | Controllogix |
| 4 | Redundant PLC for in-feed/out-feed of Process #A | High | Static 192.168.100.36 | [\\server\share\path\to\program](file:///\\server\share\path\to\program1)2 | Process #A | Fred Jones | Rockwell | Controllogix |
| 5 | PLC for controlling Process #B | High | Static 192.168.100.27 | [\\server\share\path\to\program3](file:///\\server\share\path\to\program3) | Process #B | Fred Jones | Siemens | S7 |
| 6 | Redundant PLC for controlling Process #B | High | Static 192.168.100.37 | [\\server\share\path\to\program3](file:///\\server\share\path\to\program3) | Process #B | Fred Jones | Siemens | S7 |
| 7 | PLC for controlling conveyer | High | RS232 (see Device asset #6) | n/a | Process #B | Fred Jones | ? | ? |
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# Appendix C: Device Assets Sample

Figure 7 Sample - Networked Industrial Macine/Device Assets

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| --- | --- | --- | --- | --- | --- | --- |
| Asset Id | Description | Network Info | Location | Point of Contact | Make | Model |
| 1 | Extrusion machine | Static 192.168.100.28 | Process #A | Fred Jones |  |  |
| 2 | Robot #1 | Static 192.168.100.29 | Process #A | Fred Jones |  |  |
| 3 | Network 24-port managed switch | Static 192.168.100.254 | Cage #1 | IT | Dell | PowerConnect 3524 |
| 4 | Redundant Network 24-port managed switch | Static 192.168.100.253 | Cage #1 | IT | Dell | PowerConnect 3524 |
| 5 | Firewall | Static 192.168.100.1 | Cage #1 | IT | Netgear | ProSafe SRX5308 |
| 6 | Ethernet to Serial converter for PLC Asset #1 | Static 192.168.100.28 | Process #A | Fred Jones | ? | ? |
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# Appendix D: Software Assets Sample

Figure 8 Sample - Software-based Systems Assets

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Asset Id | Description | Category | Type | Interfaces | Sends data to | Receives data from | Point of Contact | Vendor | Version |
| 1 | InTouch Suite | Control | SCADA | Modbus, OPC, Ethernet | Display, PLC Asset #1, OPC Server (Asset #2) | PLC Asset #1, OPC Server (Asset #2) | Fred Jones | Wonderware | 7.1 |
| 2 | KEPServerEX OPC Server | Control | Driver | Modbus, OPC | PLC Asset #1 | PLC Asset #1 | Fred Jones | Kepware | 5 |
| 3 | MS Office | Office | Suite | n/a | n/a | N/a | IT | Microsoft | 2016 |
| 4 | Visio | Office | Graphic | n/a | n/a | n/a | Fred Jones | Microsoft | 2016 |
| 5 | Process #A Data Logger (custom app) | Supervisory | Logging | OPC | n/a | OPC Server (Asset #2) | Fred Jones | In-house | 1.0 |
| 6 |  |  |  |  |  |  |  |  |  |
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