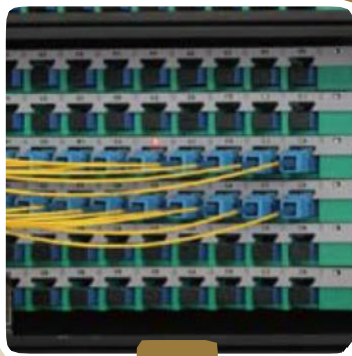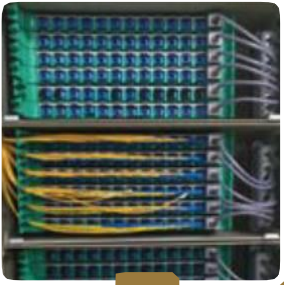**ShinewayTech** intelligent optical network managing system ST-iODN (Intelligent Optical Distribution Network ) is mainly focused on the problem of optical network management. The connection status of optical connector is identified by an electronic note to ensure the efficient utilization of optical network connector resources. It can improve the operation and maintenance efficiency of the ODN through the construction process. Therefore, the original ODN will be promoted to a complete and intelligent new generation optical network.
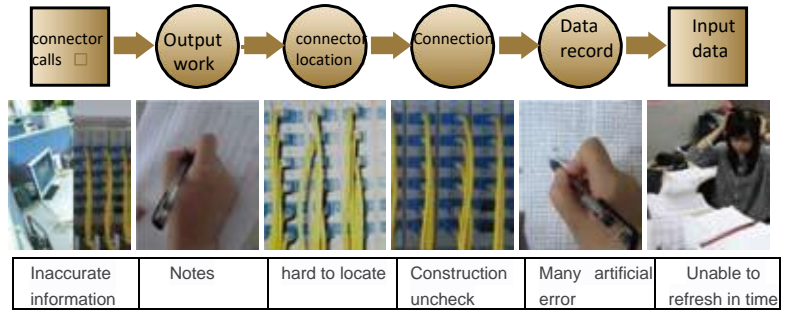
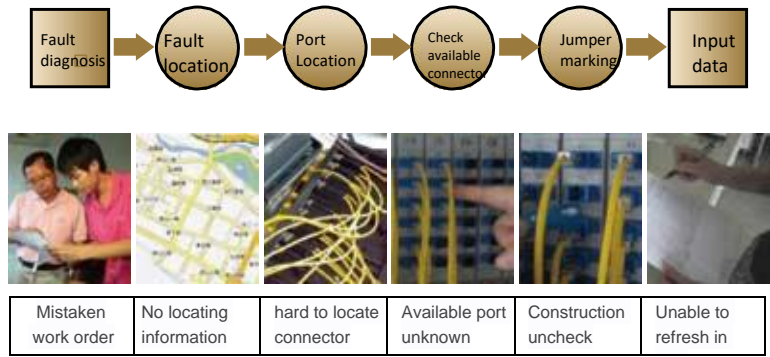ST-iODN

Optical Network Managing System

# The ultimate solution of three major management problems of traditional optical network

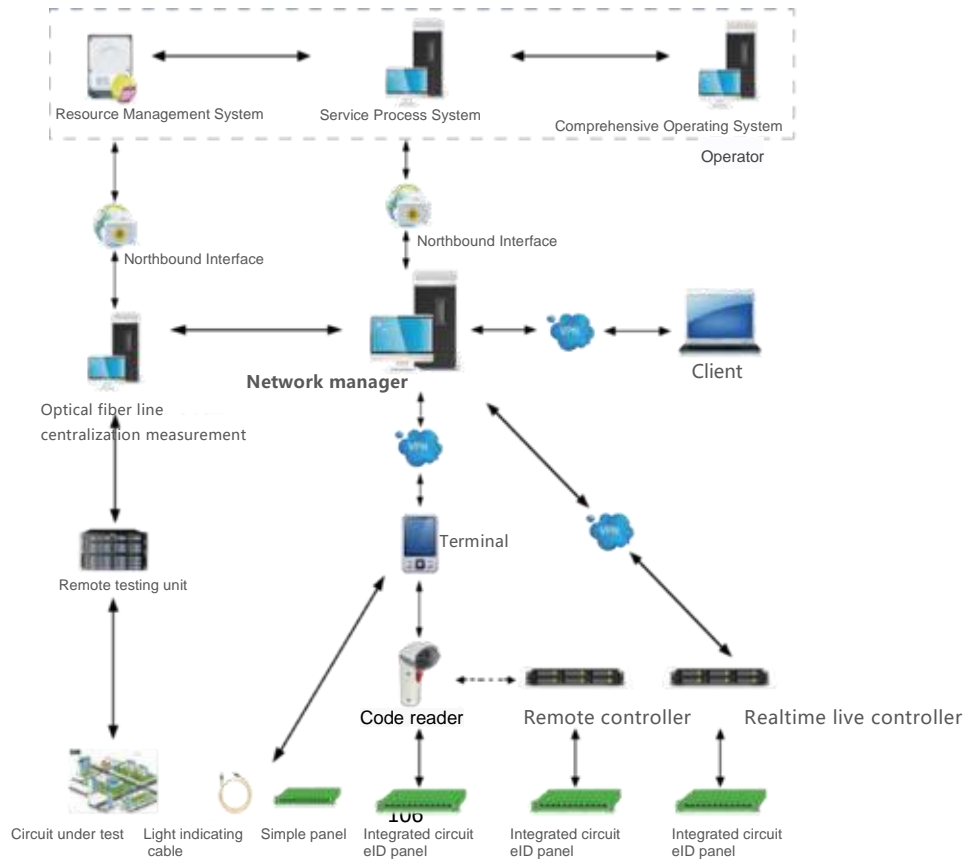## Problem 1: Connector chaos results in resource waste　　Problem 2: Inefficient operations of Network



| connector calls □ → Output work → connector location → Connection → Data record → Input data |

| Inaccurate information | Notes | hard to locate | Construction uncheck | Many artificial error | Unable to refresh in time |
|---|---|---|---|---|---|

## Problem. 3: Fault correcting slowly

| Fault diagnosis → Fault location → Port Location → Check available connector → Jumper marking → Input data |

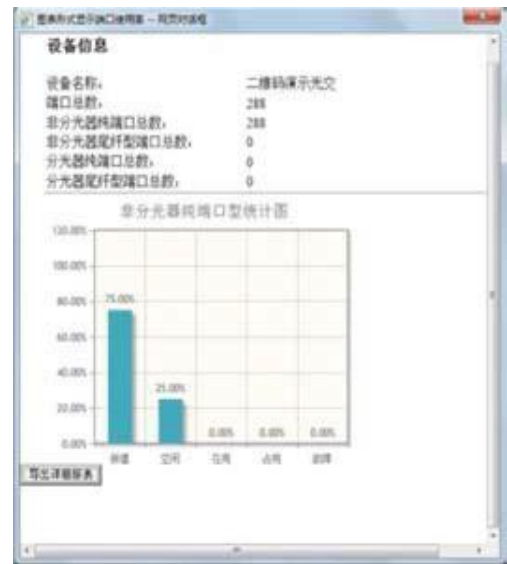| Mistaken work order | No locating information | hard to locate connector | Available port unknown | Construction uncheck | Unable to refresh in |
|---|---|---|---|---|---|

# Composition of ST-iODN

- Automatic obtain the status of connector
- Manage connector information
- Intelligent guide in operation
- Intelligent check
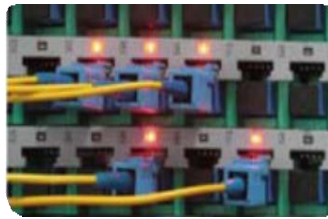- Automatic dispatch optic routing
- Resource usage analysis



Manage optic network connector information



Intelligent construction guide



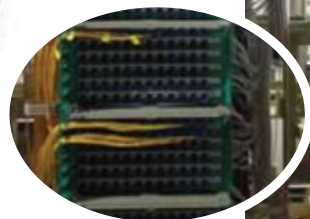Intelligent construction acceptance



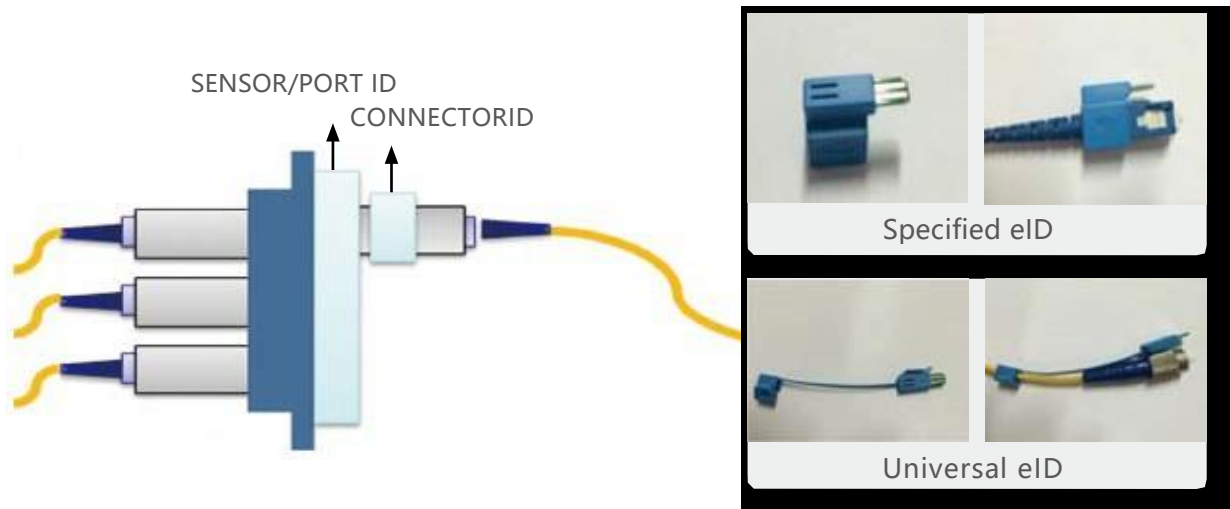Resource usage analysis

## The core advantage

- Covers equipment from all companies, all types.
- Supports non-interrupting modification.
- Cover all nodes in network
- Use standard electronical note-eID, compatible with other brands of electronic note
- Apply intelligent terminal+portable power supply in instruments which locates outside and cannot offers long term power supply, offer a no dead end managing in optical network
- System applies B/S infrastructure, staff doesn't need to install client

## The intelligent panel
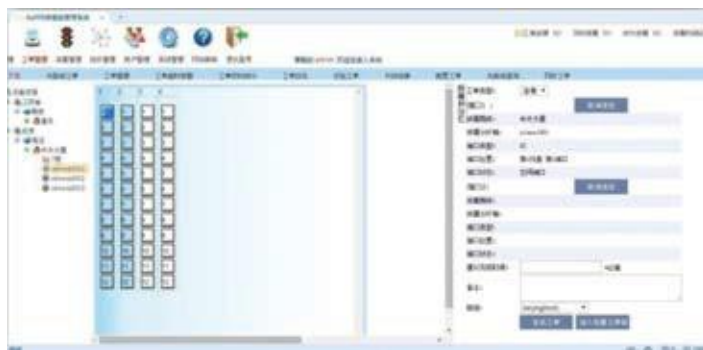
## eID  Integrated circuit electronical note

● Applies to all types of connector.

● Electronic note is totally sealed into protect cover, service life is over 30 years.

● Accuracy of information reading is reliable

● Supports non-interrupting modification

SENSOR/PORT ID
CONNECTORID



Specified eID

Universal eID

## Intelligent Software

The intelligent management software of optical network is the core of each part of the fiber network management system. It can organize and visualize all the information of the optical network within the jurisdiction. And each function module of the intelligent ODN can be assigned to the various tasks in the normal operation of the network.

● Resource allocation is flexible

● Remote resources are visible online

● Multiple strategies automatically
   generate light routing

● Electronic document delivery or receipt
   in real time

● Compatible with all vendors' ODN devices

● Seamless connection with OSS

● User accounts are set by region and business independently

● Decision support and resource utilization are multidimensional automatic analyzed.

● B/S infrastructure, browser accessed directly, no need to install guest software

## Intelligent management terminal

The dedicated android APP of the Intelligent Optical Distribution Network can provide the practical functions for the installation of maintenance personnel, such as single sending and receiving, construction navigation, information inquiry and other convenient construction. And it can provide the network for the non-real-time power supply equipment, so that it can achieve the fault alarm, the resource patrol and other functions.

● Collection of resource and initial information

● Construction guidelines graphically

● Construction check

● Support engineer management

● Lightweight design, save flow and the savings

● Support offline use

● Software can be updated automatically

# Components of  the fibre port management

**ShinewayTech** ST-iODN use the contact eID electronic label for the identification and reading of the jumper. The intelligent device is composed of a traditional ODN equipment and intelligent panel, including ODF, OCC and ODB

- Monitoring status of the resource online
- Automatic collection and inspection of the resource
- Connector status use LED guide
- Automatic check to avoid human error
- The relationship of connection is tracking onl