UPM
Business-Oriented Network Management Solution
Getting Started Guide
(UPM 4.1)
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Introduction

Colasoft UPM is a business performance management solution provided by Colasoft.

Components

Colasoft UPM consists of nChronos Server (hereinafter referred to as “frontend”) and UPM Analysis Center (hereinafter referred to as “UPM Center”).

Frontend

Frontend devices can be deployed at the critical nodes on the communication link for business system, and capture business communication data by switch port mirroring or network TAP. The frontend collects and analyzes the performance index parameters and application alarm information in real-time, and uploads to UPM Center via the management interface for overall analysis.

UPM Center

UPM Center is deployed to converge frontend devices, collect the business performance indexes and alarm information uploaded by frontend devices, and display the analysis results.

Architecture

UPM Center communicates with frontend using B/S (Browser/Server) architecture in determined hops to thereby intensively monitor and manage the whole network.

The architecture between UPM Center and frontend devices is visualized as the following figure:

Deployment

Colasoft UPM is developed based on the idea of distributive deployment and intensive management. You can deploy frontend devices at any network links that need to be monitored to capture traffic. The frontend devices upload the data to UPM Center and UPM Center analyzes the data and shows the analysis results and manages the frontend devices.
The deployment of UPM is visualized as the following figure:
Installation

Please follow Colasoft UPM Installation Manual to install UPM Center, and follow nChronos Server Installation Manual to install nChronos Server.
Start to Use UPM

UPM Activation

Input the IP address of UPM server in the address bar of browser: https://192.168.9.222, there will be an activation page when logging in for the first time.

1) Activate online: input serial number, click **Activate**.

![Activation Wizard](image)

2) Activate with license file: input serial number, import license file, click **Activate**.

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UPM Login

Input the IP address of UPM server in the address bar of browser: https://192.168.9.222, jump to the login page of UPM, input user account (csadmin) and password (ICSUPM23), click Login:

UPM Account Management

Click UPM Settings->User Accounts to add, delete or edit user accounts:
Add nChronos Servers Account

Click UPM Settings -> nChronos Servers, add nChronos Server Account.
In order to guarantee data consistency between nChrons Server and UPM, users need to synchronize their time.
Login into nChronos Server administration webpage, click Time Synchronization -> NTP Internet time server, input the IP address of UPM server, click OK. (Time synchronization will delete the data stored in nChronos Server.)

Connect nChronos Server to UPM

Click Analysis Center in nChronos Server administration webpage to connect nChronos Server to UPM, input the following parameters:

nChronos Server name: easy to recognize, for example: the IP address of nChronos Server: 192.168.9.213

Center address: 192.168.9.222

Center port: 22000 (uncheck SSL)/22100 (check SSL)

Username: nChronos Server account username

Password: nChronos Server account password
Add Probe

Click **UPM Settings -> Probe**, open the Add Probe page, add probe. Probe should be corresponding with the link of nChronos Server.
Intelligent Application Review

1) Wait for one minute, then click **Intelligent Application Review**, choose time, type, probe, or input key words to filter nodes. You can also input related conditions in **Node Settings** to filter nodes.

2) Quick adding of application: first, input key words in the search bar to filter nodes, then check related nodes in relationship graph to add applications.

3) You can also choose nodes to quickly add applications in server list.
Application Management

Click **UPM Settings->Applications** to add, delete or edit applications.

Add Business

1) Business Definition

Add business in the Centralized Business Monitoring page, click **Next** after finishing business definition.

2) Business Logic Diagram

Add business logic diagram according to actual topology.

3) Business Transaction Path
Set transaction process direction, transaction code and connection line type.

4) Alarm Settings

a. Add alarms for the nodes, you can choose alarm templates already set, or customize alarms.

b. For unreasonable alarm condition set, you can change it through alarm assessment after the application runs for a period of time.

Centralized Business Monitoring

This page is refreshed every minute. Triggered alarms of businesses are shown in this page. Alarm information is in the Alarm Statistics tab.
Business Analysis

Business analysis is mainly for the data of servers.

Click Analyze in a business in the Centralized Business Analysis page to jump to the Business Analysis page, check related application data of the business in the Business Analysis page.
Multi-Segment Analysis

Multi-segment analysis is for checking the real situations of the same data getting through different network devices, such as packets loss, network block;

Click the application connection line in business logic diagram, choose Multi-segment Analysis in the pop-up menu to open the Multi-segment Analysis page.
Choose related index to check the trend chart of it.
Comprehensive Index Query

Comprehensive index query is mainly for the query of application monitoring indexes, the query of server indexes related to applications, and the comparison query and graphic display of the indexes.

Shortcuts:

1) Click Business -> Query in the Centralized Business Monitoring page;

2) Click Comprehensive Index Query in the Business Analysis page;

3) Click Comprehensive Index Query in the pop-up menu when clicking application connection line in the Business Analysis page;

4) Click Comprehensive Index Query in the Multi-segment Analysis page.