科勝科技
UTITECH TECHNOLOGY CO.,LTD.

# AVEVA Operations Control

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# 前言

# 營運團隊各角色合作

- 依據在團隊中不同的角色達成不同的工作目標
- 營運團隊中各角色真實訊息的共享
- 利用分析與觀察，即時應變與解決問題
- 透過數位化轉型方式，提高工作的效率、可靠性和靈活性

# 營運團隊的基本訊息

工廠/部門
（以設備為中心）

即時的

控制室
（以站點為中心）

接近即時

企業
（全球/地區）

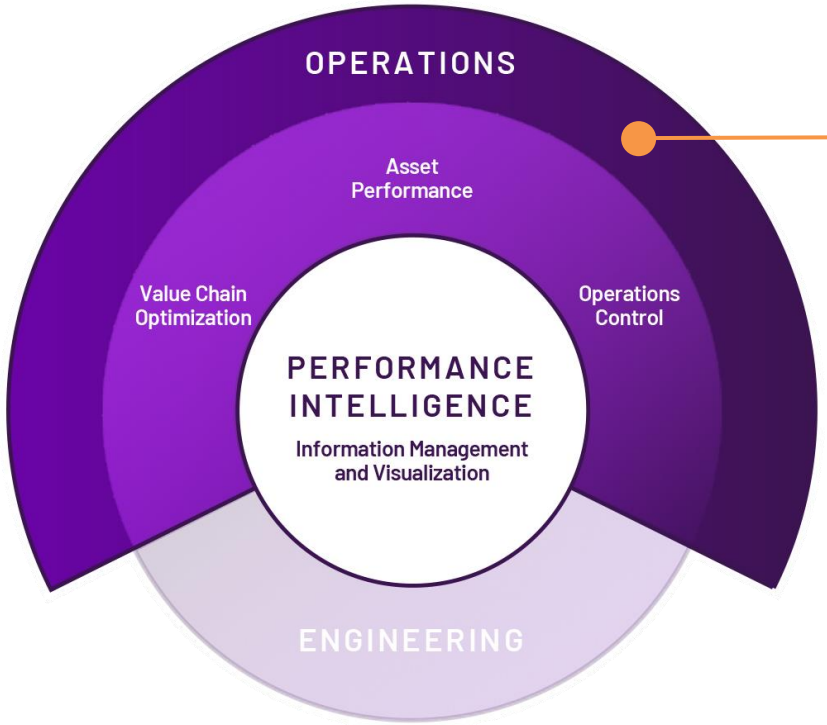
| | |
|---|---|
| 擴充靈活性 | 協作工具 |
| 關鍵績效指標 | 趨勢 |
| 製程訊息 | Historian |

| | |
|---|---|
| LIMS | 排程 |
| 能源 | MES |
| 儀表板 | 預測分析 |
| 3D模型 | 手持方案 |
| 操作員培訓 | 工作流程 |
| 擴充靈活性 | 協作工具 |
| 關鍵績效指標 | 趨勢 |
| 製程訊息 | Historian |

| | |
|---|---|
| 財務 | 供應鏈 |
| 能源 | ERP |
| 儀表板 | 預測分析 |
| 3D模型 | |
| | 工作流程 |
| | 協作工具 |
| 關鍵績效指標 | 趨勢 |
| 製程訊息 | 數據建模 |

AVEVA

# 產品組合實現更廣闊的運營視野




提高運營效率、靈活性、可靠性和長久性

| 流程控制與視覺化呈現 | |
|---|---|
| 數量與庫存監控 | 生產報告 |
| 預測分析 | 數據分析 |
| 執行與操作 | 團隊合作 |

# AOC

# AOC方案

**3 個核心方案**

## Edge(邊緣)

- 人機介面 AVEVA InTouch HMI
- 工業物聯網 AVEVA Edge

## Supervisory(監管)

- 營運控制整合平台 AVEVA System Platform*
- 高級控制 AVEVA Plant SCADA

## Enterprise(企業)

- 企業視覺化 AVEVA Unified Operations Center (UOC)

**包含在每個核心方案**

## 共有內容

- 設備通訊 AVEVA Communication Drivers
- 團隊技能 / 訓練 AVEVA Teamwork
- 報告 AVEVA Reports for Operations
- 資料分析 AVEVA Insight
- 系統監視 AVEVA System Monitor
- 系統開發 AVEVA Integration Studio

**擴展核心功能方案**

## 附加選購：製造執行

- 配方 AVEVA Recipe Management
- 精實生產 AVEVA Discrete Lean Management
- 製造執行 AVEVA MES
- 批次 AVEVA Batch Management
- 工作流程 AVEVA Work Tasks

## 附加選購 AVEVA Insight, Guided Analytics

- 引導式分析 AVEVA Insight, Guided Analytics

# 方案說明

250 使用者 — Large

100 使用者 — Medium

25 使用者 — Small

Sizing

| | Capability | Edge | Supervisory | Enterprise | Details |
|---|---|---|---|---|---|
| | 過程監控<br>AVEVA InTouch HMI | S/M/L | | | S – 25 使用者<br>M – 100 使用者<br>L – 250 使用者 |
| | 資產整合<br>AVEVA Edge | | | | |
| | 跨 OT 團隊的前哨站<br>AVEVA System Platform | | S/M/L | | S – 25 使用者<br>M – 100 使用者<br>L – 250 使用者 |
| | 跨 OT 團隊的前哨站<br>AVEVA Plant SCADA | | | | |
| | OT與IT的結合<br>AVEVA Unified Operations Center | | | S/M/L | S – 25 使用者<br>M – 50 使用者<br>L – 250 使用者 |
| | 基礎設備的結合<br>AVEVA Communication Drivers | Standard | Professional | Professional | *無限使用* |
| | 人力與資產的結合<br>AVEVA Teamwork | X | X | X | *核心軟體來自使用者數量* |
| | 即時數據與歷史數據的儲存分析<br>AVEVA Historian<br>AVEVA Historian Client | | X | X | *核心軟體來自使用者數量* |
| | 數據的即時觀看<br>AVEVA Insight | X | X | X | *核心軟體來自使用者數量* |
| | 生產數據的報表<br>AVEVA Reports for Operations | X | X | X | *核心軟體來自使用者數量* |
| | 建立和管理<br>AVEVA Dev Studio<br>AVEVA Edge Studio<br>AVEVA Plant SCADA Studio<br>AVEVA Integration Studio | X<br>X<br><br>X | X<br><br>X<br>X | X<br><br><br>X | *使用者與Integration Studio credit數量來自主要方案* |
| | 生產系統的監控<br>AVEVA System Monitor | X | X | X | *核心軟體來自使用者數量* |
| | 技術支援<br>AVEVA Customer FIRST | 支援 | 支援 | 支援 | *來自客戶AVEVA Flex 訂閱合約* |
| Add-ons | 產線執行<br>AVEVA Manufacturing Execution System<br>AVEVA Batch Management<br>AVEVA Recipe Management<br>AVEVA Discrete Lean Management<br>AVEVA Work Tasks | S/M/L | S/M/L | S/M/L | S – 25 使用者<br>M – 100 使用者<br>L – 250 使用者 |
| | AVEVA Insight, Guided Analytics<br>AVEVA Insight, Guided Analytics | S/M/L | S/M/L | S/M/L | S – 10 Models<br>M – 50 Models<br>L – 250 Models |

## 以使用者為基礎的授權方式

- Unlimited IO
- Unlimited Tags
- Unlimited Screens
- Unlimited InTouch / Edge
- Unlimited System Platform
- Unlimited Plant SCADA
- Unlimited UOC
- Unlimited OI Servers

**Example:**
客戶有4個班，每班10人總計需40 使用者.

# 如何購買

| | Licensed by | Flex Credits |
|---|---|---|
| Edge 方案 | | |
| Small | 25 使用者 | 4,000 credits |
| Medium | 100 使用者 | 15,000 credits |
| Large | 250 使用者 | 35,000 credits |
| Supervisory方案 | | |
| Small | 25 使用者 | 5500 credits |
| Medium | 100 使用者 | 23,000 credits |
| Large | 250 使用者 | 54,000 credits |
| Enterprise方案 | | |
| Small | 25 使用者 | 13,500 credits |
| Medium | 100 使用者 | 35,000 credits |
| Large | 250 使用者 | 70,000 credits |
| 加購: 製造執行 | | |
| Small | 25 使用者 | 5,000 credits |
| Medium | 100 使用者 | 12,000 credits |
| Large | 250 使用者 | 20,000 credits |
| 加購: AVEVA Insight, Guided Analytics | | |
| Small | 10 Models | 1,300 credits |
| Medium | 50 Models | 3,000 credits |
| Large | 250 Models | 11,000 credits |

- 合約內授權不可變更,而使用者授權採用紙本.
- 客戶必須擁有 Flex Credit ，後續才能兌換其中一個方案，再進一步授予相對應權限。
- 評估系統架構後推算需要購買Flex Credits數量， Edge, InTouch, 等其他產品授權再以Flex Credits進行購買
- Insight 和 Teamwork 須配合於雲端.

# Flex Credit計算方式

| | Base Credits | Users | Flex Credits (cr) |
|---|---|---|---|
| **AVEVA Operations Control** | | | |
| Edge package | 2,000 Credits | 25-99 Named Users<br>100-249 Named Users<br>Over 250 Named Users | 100 credits/user<br>80 credits/user<br>65 credits/user |
| Supervisory package | 3,000 Credits | | |
| Enterprise package | 15,000 Credits | | |
| **Add-on: Manufacturing Execution** | | | |
| Site package | 4,000 Credits | 25-99 Named Users<br>100-249 Named Users<br>Over 250 Named Users | 25 credits/user<br>20 credits/user<br>15 credits/user |
| **Add-on: AVEVA Insight, Guided Analytics** | | | |
| Small | N/A | 10 Models | 1,300 credits |
| Medium | | 50 Models | 3,000 credits |
| Large | | 250 Models | 11,000 credits |

**Configuration Examples:**

- Edge package with 75 users
  2,000 + 7,500 (75 x 100cr) = 9,500 Flex Credits
- Edge + Enterprise packages with 300 users
  2,000 + 15,000 + 19,500 (300 x 65cr) = 36,500 Flex Credits
- Enterprise package with 25 users
  15,000 + 2,500 (25 x 100cr) = 17,500 Flex Credits
- Supervisory package with 100 users + MES Site package with 50 users
  3,000 + 8,000 (100 x 80cr) + 4,000 (MES) + 1,250 (50 x 25cr) = 16,250 Flex Credits
- Supervisory package with 25 users + Guided Analytics Medium
  3,000 + 2,500 (25 x 100cr) + 3,000 (Guided Analytics) = 8,500 Flex Credits

# 相關連結

- https://www.utitech.com.tw/Product_AVEVA%20Flex_Operations%20Control.html

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# THANK YOU !

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