SECURE COMMUNICATIONS AND INFORMATION SYSTEMS

TRAP Case Studies

Name of Example | PES SCADA
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**Client**
Sellafield Ltd

**Client Situation**
SL has a large number of industrial control systems, based on relatively old PES/SCADA technology (Programmable Electronic Systems/Supervisory Control and Data Acquisition), and was keen to understand the risks that such systems could face and vulnerabilities and threats that could affect them.

**Task Description and Approach**
Thales were already providing support to the Sellafield Security Enhancement Programme (SSEP) and therefore were asked to develop and demonstrate a more bespoke approach to the risk assessment of PES/SCADA systems. Working with the customer (both their Information Security Organisation and PES/SCADA senior technicians) an overall approach was agreed and a pilot methodology developed. This was an iterative process, with review stages with the customer built-in to discuss, modify and approve the development activity. The overall risk assessment methodology took account of the best of breed controls from ISO 27002, ANSSI and SANS. These were then used to develop a question set (yes/no answers) to be used in the risk assessment process.

Following the development of the pilot methodology this was then used, (in a facilitated workshop with senior SL technicians and operators) to assess a significant PES/SCADA system. The outcome from this was the production of a Risk Treatment plan for SL to consider.

- Thales was able to develop a working methodology that provided a framework for the risk assessment of PES/SCADA systems.
- The methodology was identified as a way of developing a standards based risk assessment tool that could facilitate the use of different standard sets (ISO27001/IEC 62443 etc).
- Thales subsequently was awarded a contract to undertake IT risk assessments against 150 SL IT systems.

**Man Days**
The overall project duration was 5 months.

Methodology developed by Stephen Drinkwater
Project Manager – Phillip Taylor
Project co-ordinating engineer - Ian Christie
Safety Consultant – Ian Podger
Industrial Controls Consultant – Cevn Vibert
Cyber Consultants:
Dean Bessel
Tony Lodge
Roy Griffiths
Ivan Salmons
Ian Glover
James Baird
Ski Sharpe
Anya Graham

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