

DATAPK

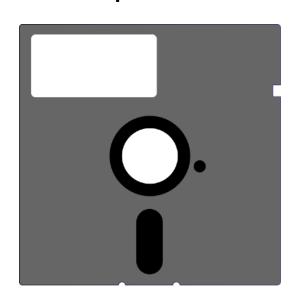
Information security solution for industrial systems and critical infrastructures



Alexey Komarov Solutions Development Manager Ural Security Systems Center

Problem: new and old technologies

• 1989 - TCP/IP placed into the public domain

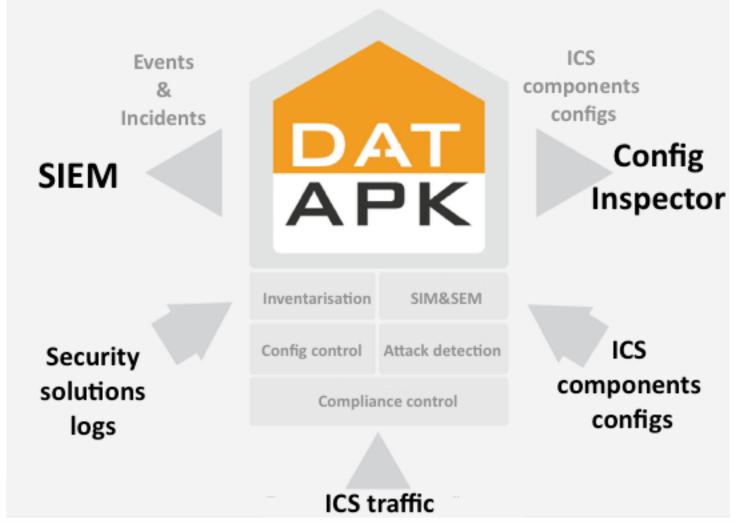


- 1958 Sibirskaya Nuclear Power
 Plant (2nd in the World)
- 1958 Lukoil Nizhegorodnefteorgsintez
- 1968 Gazprom mining Orenburg
- 1978 Sayano Shushenskaya Dam
- 1985 Surgut-2 Power Station

Problem: IT vs ICS



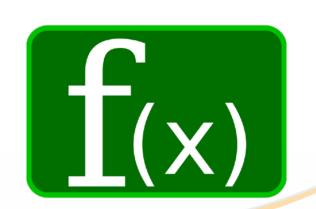
Solution: DATAPK function scheme



Solution: DATAPK functions

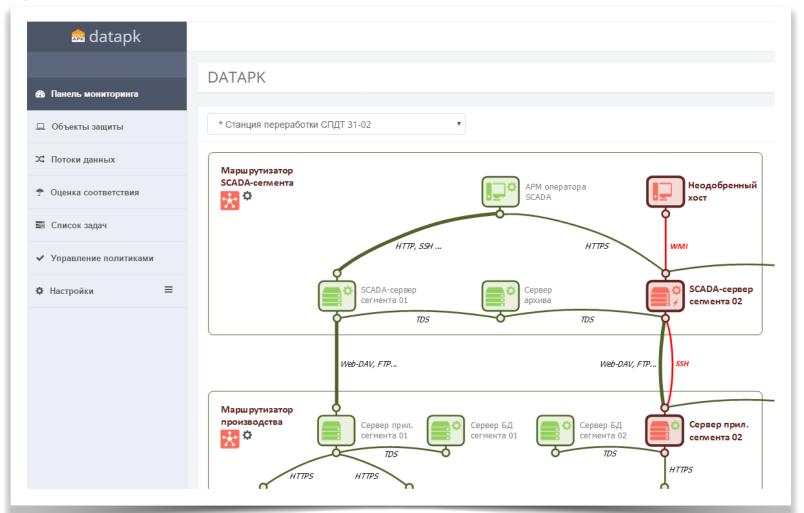
- ICS components inventory
- ICS components configuration control
- Computer attacks detection
- Centralized collection, correlation, classification and analysis of the importance of information security events
- ICS components risk assessment
- Automized compliance







Solution: DATAPK interface example 1



Solution: DATAPK interface example 2

Выявлено событие информационной безопасности!

Необходимо немедленно оповестить ответственного сотрудника по телефону:

+7(343)286-24-39

Сообщите ему нижеследущую информацию:

Код события: ИБ #15.23-1

Тип события: Нарушение целостности

Описание события: Обнаружен новый поток данных между "Сервер архивов" и "АРМ

инженера АСУ ТП"

Возможное последствие: Нарушение замкнутости функционирования оборудования,

ПО ИСиС или систем защиты

Дополнительная служебная информация:

Источник: 192.168.243.112 Получатель: 195.64.213.460

Протокол: ICMP

Дата и время выявления: 03 марта 2016 17:22

Крайнее время оповещения: 17:52 Осталось: 29 минут 43 секунды

Введите код подтверждения сотрудника:

Принять



Market: sources

Industrial Control Systems (ICS)
 Security Market - Global Advancements,
 Market Forecast & Analysis (2013 - 2018)
 by Markets and markets.

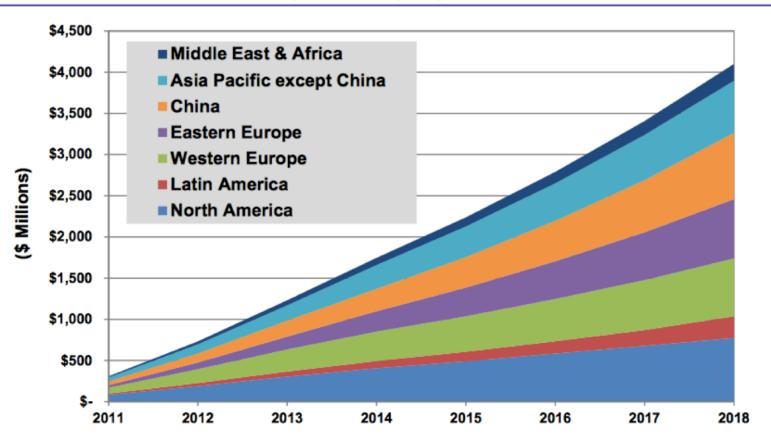


- ICS Cyber Security Solutions of ARC Advisory Group.
- Industrial Control Systems Security (Market Issues, Best Practices, and Global Forecasts) by Pike Research.
- http://cis-forum.ru/assets/images/Prezi/Lukatskii.pdf Alexey Lukatsky, International ICS security market overview.



Market: Worldwide

Chart 2.3 Cumulative ICS Security Revenue by Region, World Markets: 2011-2018





Market: enough =)

McKinsey method: (information) security market is 5-7% of information services

 Market assessment: \$85 billions with an expected annual growth 6% by 2020 (Ministry of Industry and Trade).

• For each technology growth dynamics may be different - from 3% to 12%.

• Our market could reach \$4.5 billion.





Market: segments

- Plants (metallurgy, chemical, petrochemical, oil and gas etc.)
- Nuclear power plants, hydropower plants, thermal power plants
- Urban transport, railway, airports, ports
- Military industrial
- Utilities



«Competitors»: who are they?





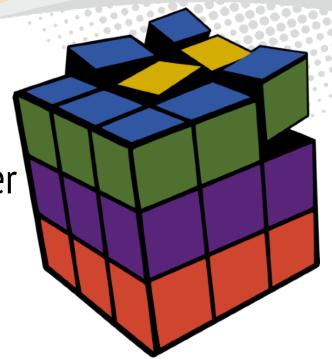






«Competitors»: collaboration

- DATAPK can be implemented together with them as a part of complex solution
- DATAPK can be implemented in addition to double the control
- DATAPK can collect data for them
- DATAPK can export data to them



- АПК «ЩИТ»
- ASAP
- KICS

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«Competitors»: why DATAPK?

- **Agentless** no change in infrastructure
- Fast start no long time for implementation
- Automized compliance FSTEK, NIST, NERC etc.
- Modular and hierarchical architecture possible to build complex systems
- Patented* technologies method for controlling data transmission network, application of soft computing for control tasks, etc.



Team

- Alexey **Komarov** Solutions Development Manager. Information security: 10+ years. FSB Academy, secure telecommunication systems engineer, with honors.
- Nikolay **Domukhovsky** Chief Engineer: 5+ years. Information security: 10+ years Higher education on information security.
- Anton **Afanassenko** Head of Development, solid experience as a programmer and project management.
- 5 own and 10+ outsourced developers.
- USSC: analytics, engineers, experts.





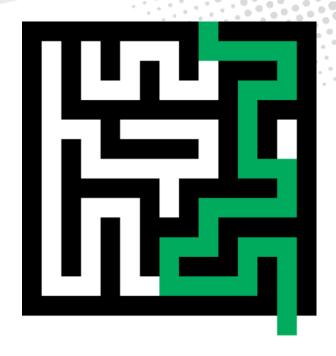
Team: experience and qualification

- Dedicated unit: 3+ years of operation
- Audits of existing ICS (40+ objects)
- Information security systems designs
- ICS security researches (ICS-CERT advisories)
- Trainings for customers
- A series of webinars Cybersecurity NON-STOP
 - http://USSC.ru/events/webinar (Events -> Webinar Archive)
 - 2 seasons, 8+8 series, 13+ hours, 3000+ views on YouTube



Implementation: plan

- 2016
 - First sell
 - Three pilots
 - FSTEK certification
 - Southern Federal University labs
- 2017
 - Gazpromcert certification
 - Three active partners
 - Two collaborative product with «competitors»
 - OEM products with ICS vendors
 - Start of international expansion



- Every year
 - more ICS protocols
 - more ICS devices
 - more integrations
 - more ICS technologies partners



Thanks!



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