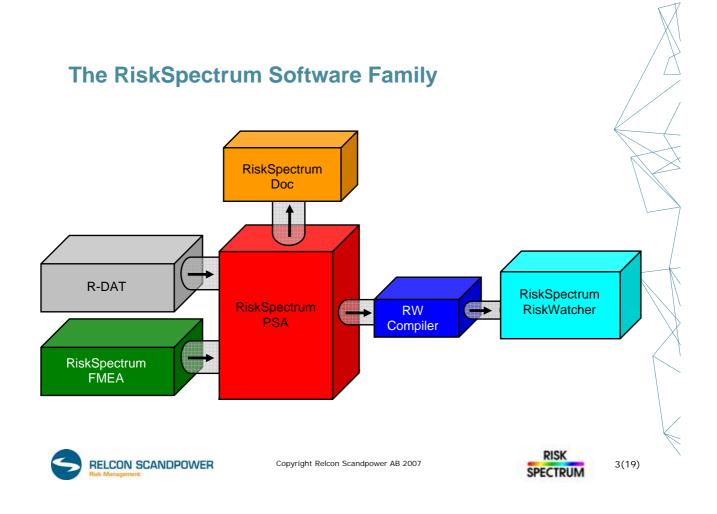


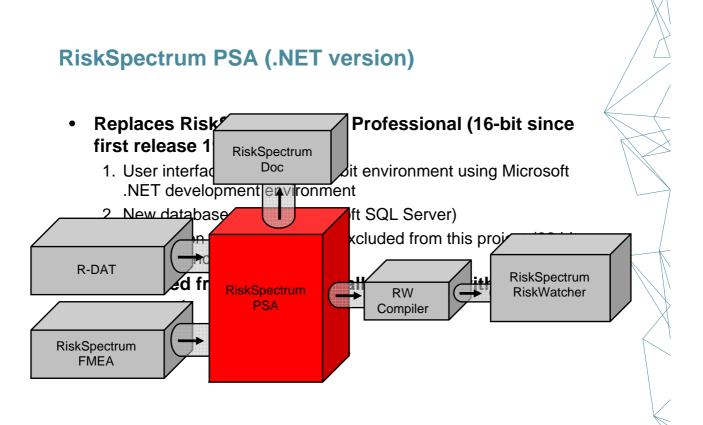
Relcon Scandpower AB Box 1288 Sundbyberg

Relcon Scandpower

RiskSpectrum Software 13-14 November 2007 Open PSA Osaka, Japan







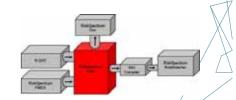
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SPECTRUM

RELCON SCANDPOWER

RiskSpectrum PSA (.NET version) - Latest News



- Final delivery from SPAN (India) made beginning of October 06
- Relcon Scandpower develops filter, CCF generation, protection system
- Delivery of beta version January 2007
- Relcon Scandpower formal testing started <u>15 February</u> <u>2007</u>
- Release: 2007

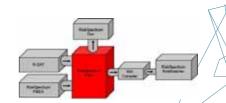


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RiskSpectrum PSA (.NET version) - Demo



New features:

- More than one result window at a time
- Graphical display of basic events with exchange events
- TRUE/FALSE and Tag colour indication in FT
- Easier to add consequence to sequence in the event tree editor
- "Quick Filter" in record lists
- Tag by date
- Propagate Tag
- Save Tag info to file





RiskSpectrum PSA (.NET version) - Demo, cont.

Total Control Control

More New features:

- Edit, Review and Approve
- Undo
- Lock/freeze model
- Project Options
- Password
- Server keys
- Improved performance

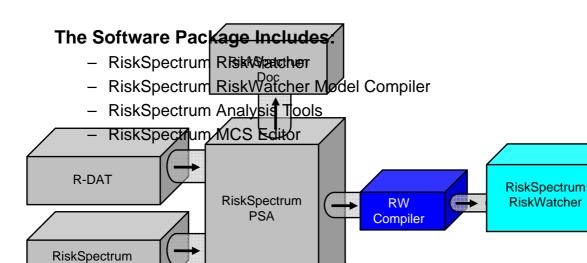


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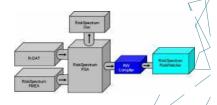






FMEA

RISK



Input:

- Plant Model
 - PSA Model
 - Deterministic Model (D-in-D)
 - Systems and Component Mapping
- Event History Log
 - Events that are planned & that have occured
 - · System Configuration
 - Component Unavailability
 - · Plant Operating Modes
 - Environmental Factors
 - It is possible to import information from other tools



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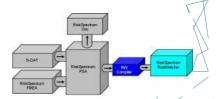
RiskSpectrum RiskWatcher

Output (Results):

- Support On-line Decision Making
 - Risk Status
 - Probabilistic
 - Deterministic (Defence in-Depth)
 - Allowed Outage Time in Current Configuration
 - Risk Profile
 - Risk Importance
- Planning and Follow-up (experiences)
 - Risk Status and Profile
 - Probabilistic
 - Deterministic (Defence in-Depth)
 - Comparison of Different alternatives
- Risk Log

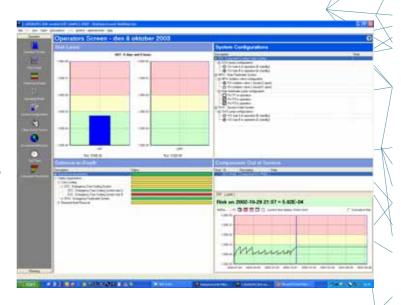






The Operators Screen

- 7 dockable windows
 - Risk Level
 - Defence-in-Depth
 - Components out of Service
 - System Configurations
 - Plant Operating Mode
 - Environmental Factors
 - Risk Graph





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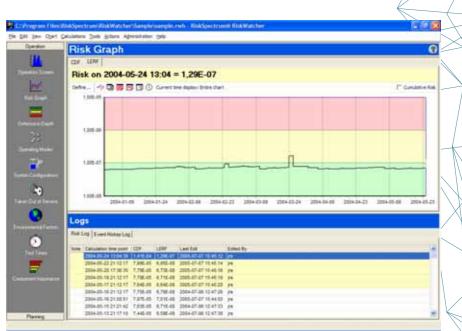
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RiskSpectrum RiskWatcher

RiskSpecture RiskSpecture RiskSpecture RiskSpecture RiskSpecture RiskSpecture RiskSpecture RiskSpecture

Online Risk:

- Risk Curve
- Risk Log
- Event Log

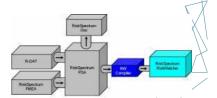




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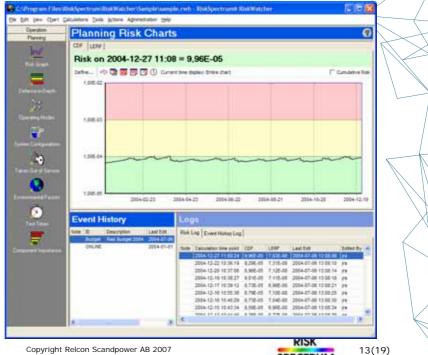


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What-If analyses:

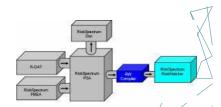
- **History**
- **Future**
- **ONLINE**



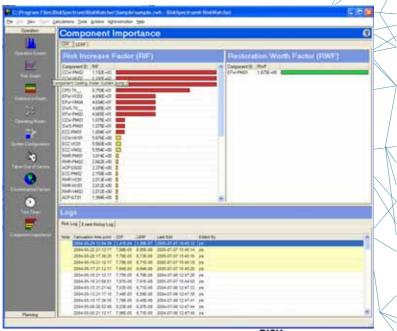


SPECTRUM

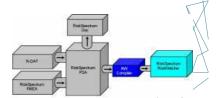
RiskSpectrum RiskWatcher



Component Importance:

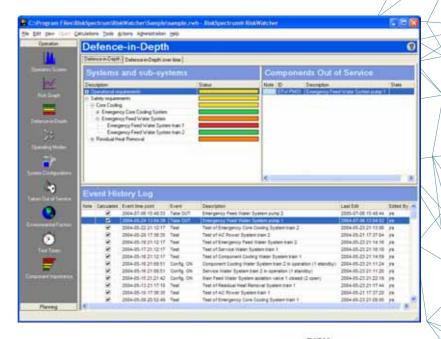






Defence-in-Depth:

- System/Barrier
 - Available
 - Degraded
 - Yellow
 - Orange
 - Unavailable



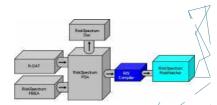


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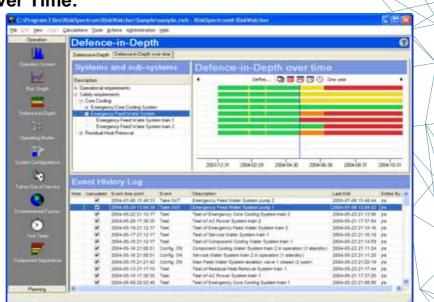
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RiskSpectrum RiskWatcher



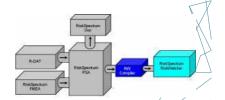
Defence-in-Depth Over Time:

- System/Barrier
 - Available
 - Degraded
 - Yellow
 - Orange
 - Unavailable









Summary:

- RiskSpectrum RiskWatcher has the capability of:
- Planning and risk follow-up
 - Evaluate risk for planned activities
 - Evaluation of experience
 - Determine best strategy
- Monitoring online risk
 - Probabilistic
 - Deterministic
- Support decision making
 - Importance factors
 - Defense in-depth (Tech.Spec. information)
- Presentation of risk history

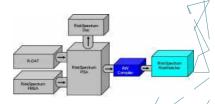


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RiskSpectrum RiskWatcher



Summary (cont.)

RiskSpectrum RiskWatcher has the capability of:

- Support Living PSA (configuration control)
 - The PSA model is the RM model (run through compiler)
 - Easy to convert model can be done without consultants
 - Deterministic model is part of PSA model
 - The model can be kept living!
- Fast calculation engine: RSAT (enhanced version for RW)





