

Emergency Response Solution and SAP Integration Pfalzwerke-Netz AG, Germany

Presentation by AED-SICAD

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Esri European UC 2014

AED-SICAD: Key Facts



- One of the biggest GIS-Software Application Companies in Europe
 - German Company (Offices Sites in Bonn, Munich and Berlin)
 - > 180 employees in AED-SICAD AG, 340 in the group
 - 80% in private ownership 20% Esri Inc
 - Key Markets: EMEA
 - Esri Platinum Partner



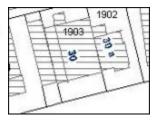








- COTS Software:
 - Utilities: ArcFM UT Product Suite
 - Land Management
- Professional Services
- International: Partner enabling





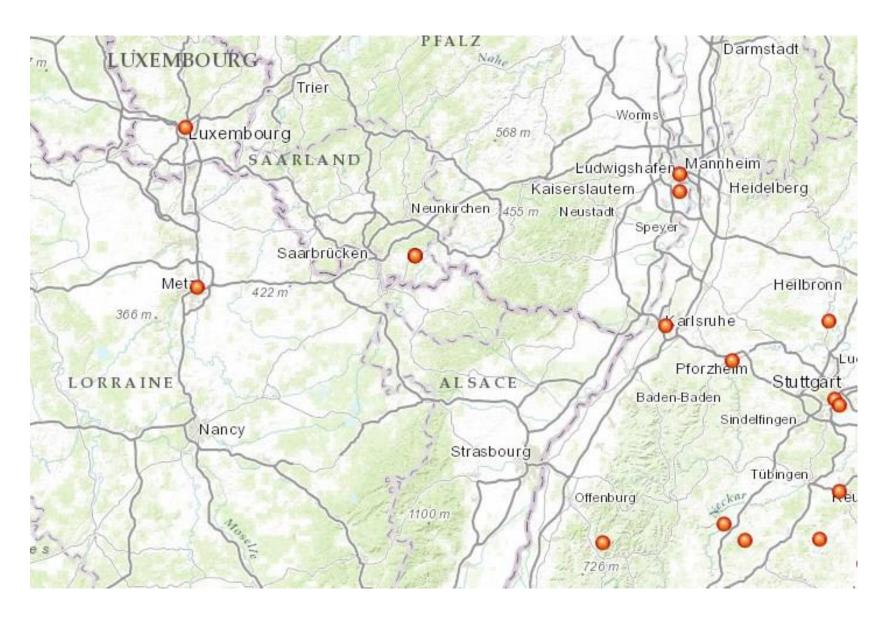
SCADA Integration: Management of Catastrophes



- Client: Pfalzwerke-Netz (Ludwigshafen, Germany)
- Supplier for electricity and gas
 - Network area: 5870 km²
 (SW of Germany, border of France)
 - Staff: 550 employees
- Electricity network
 - 1.250 km high and very high voltage
 - 4.570 km medium voltage
 - 8.640 km low voltage

Geographical Situation





Objectives of Crisis Management System

- Precaution as a protection of men and assets
- Faster assistance in case of accidents involving people
- Reducing duration of outages (during crisis)
- Reducing excess load on assets during outage
- Minimizing additional cost
- Quick restoration of energy supply

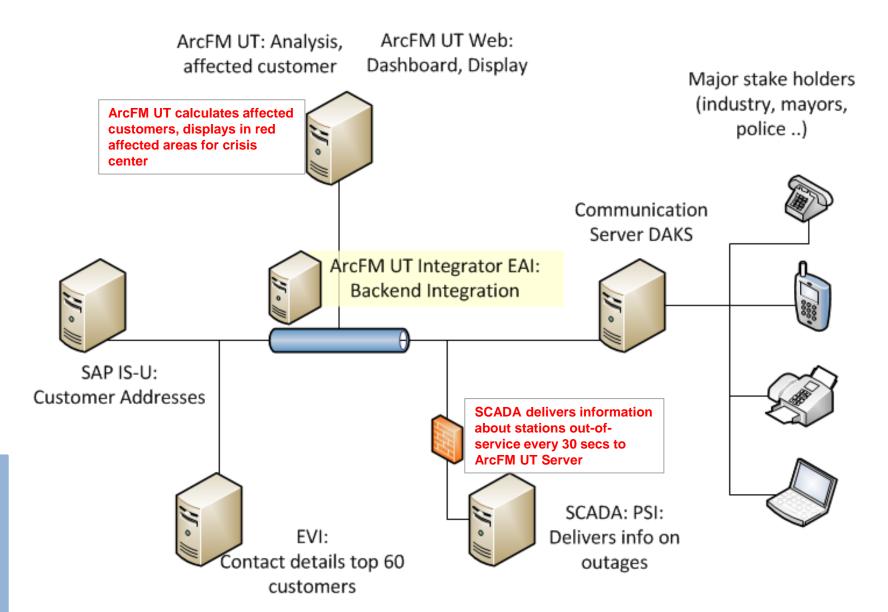
Concrete Requirements



- Graphical overview of the actual supply status within the whole network area
- Easy-to-use
- Active support of the crisis management team
- Analysis functionality during the crisis
- Overview on affected customers and communities
- Online- / web-based service
- Communication with internal & external systems
- Reconstruction of a crisis event

Crisis Management: Architecture

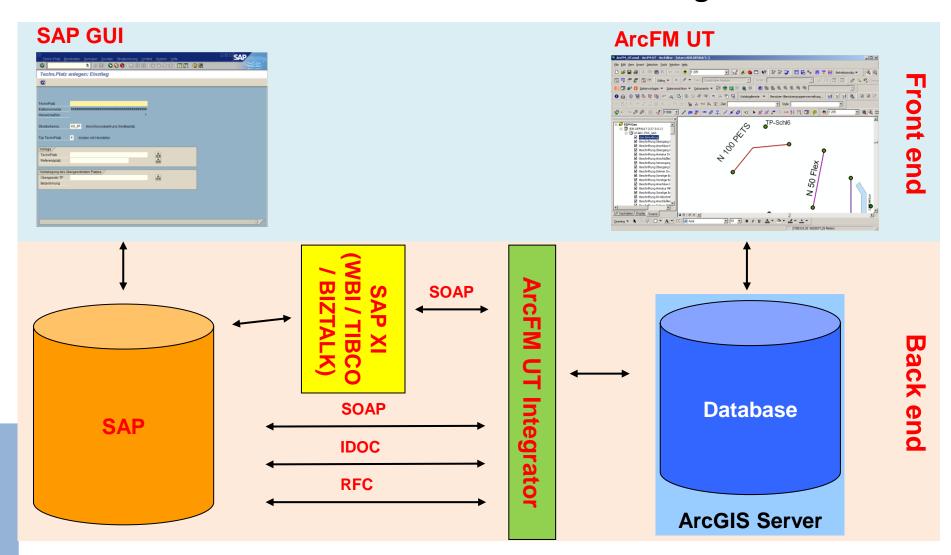




ArcFM UT Integrator



Transfer of data and function calls in the background



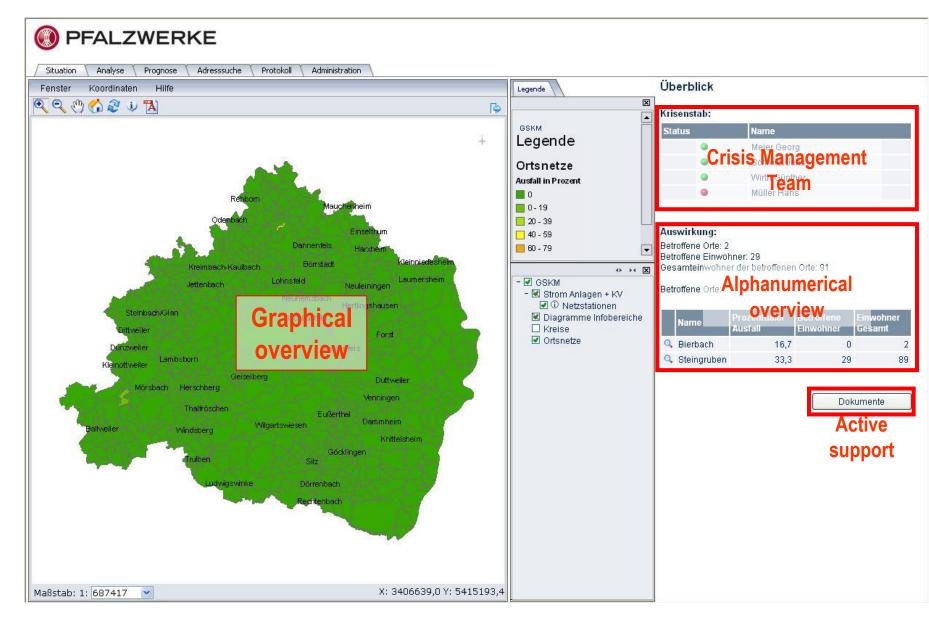
ArcFM UT Integrator EAI



- Bi-directional
- Synchroneous / assynchroneous
- Interfaces
 - SOAP / XML
 - IDOC
 - RFC
 - Table Reader
 - CSV files
- May "talk" to other EAI busses (BizTalk, WBI ...)
- Reliable and secured communication
 - Logging (Messages, Jobs, ...)
 - Email notification

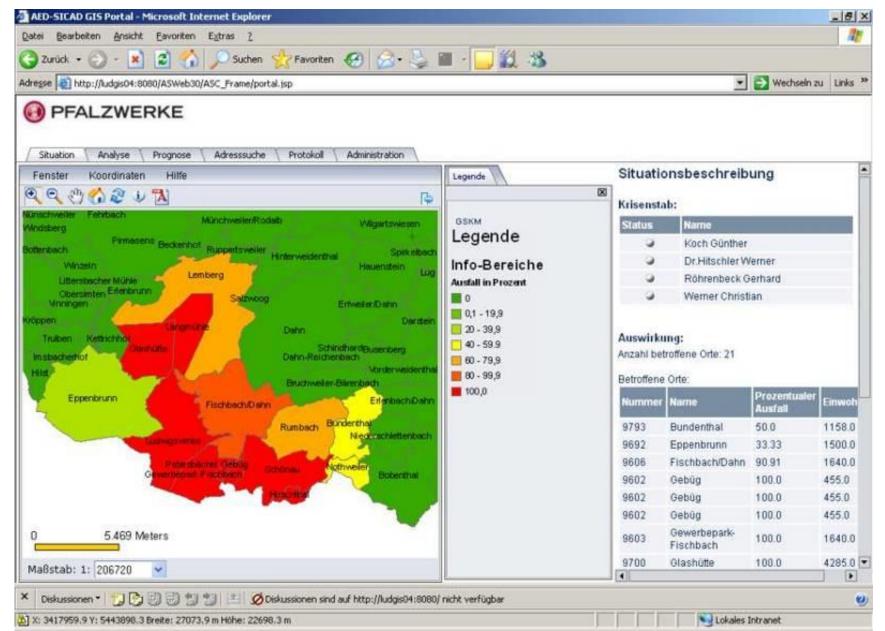
Overview on GUI





Overview on GUI

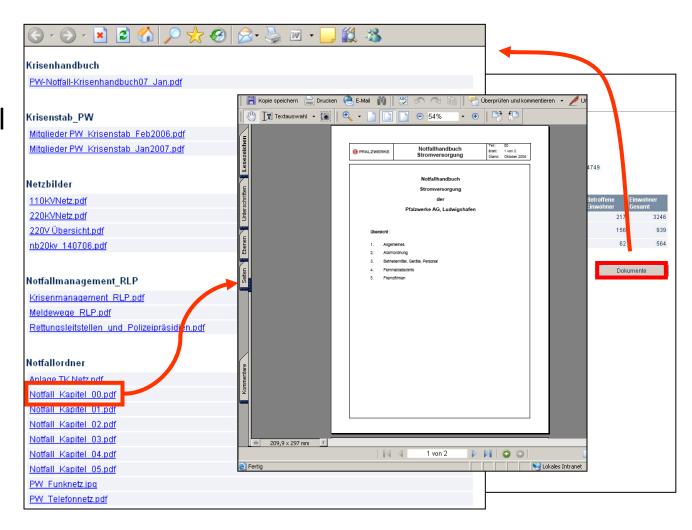




Outage and Crisis Management System: Active Support



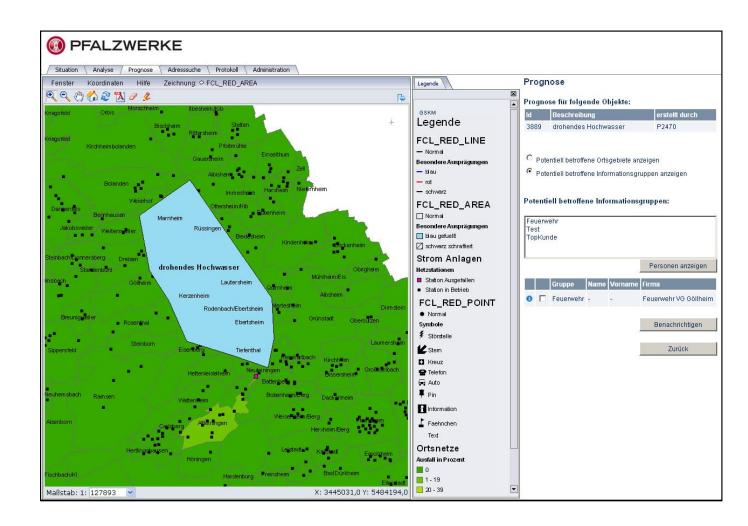
- Check lists
- Emergency planning
- Operational guidelines
- Wording of the law
- Guidelines



Outage and Crisis Management System: Forecast



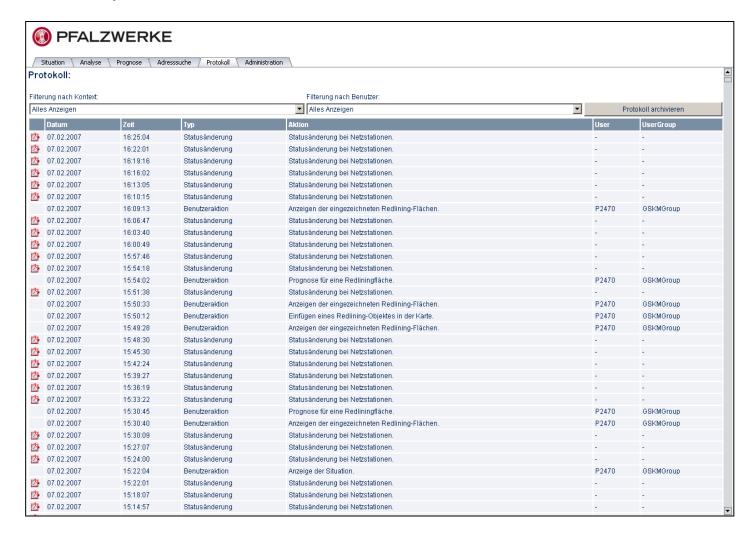
- Redlining
 - Symbol
 - Line
 - Text
 - Area
- Forecast for affected networks
- Forecast for affected information groups



Outage and Crisis Management System: Reconstruction of an Event



- Recall of chronologically archived states
 - Example: Storm "Kyrill"



Thank You for Your Attention







More details: Success Story Available, please contact me at our booth

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