

## Who we are



Japan's largest IT services provider and

No. 5 in the world.

(based on vendor revenue 2015)\*

We do everything in ICT. We use our experience and the power of ICT to shape the future of society with our customers.

156,000 Fujitsu people support customers in more than 100 countries.

FORTUNE named Fujitsu as one of 'the World's Most Admired Companies' for the fourth consecutive year.

\* Source: Gartner, "Market Share: IT Services, 2015" 06 April 2016 (GJ16139)





# Alexander Zaeh Senior Solution Consultant

# Fujitsu Distinguished Engineer

# Our products and services



**Technology Solutions** 

#### **Services**

#### Solution / SI

- Systems Integration (system construction, business applications)
- Consulting
- Front-end technologies
   (ATMs, POS systems etc.)

#### Infrastructure Services

- Outsourcing services
   (datacenters, ICT operation/management, SaaS, application operation/management, business process outsourcing, etc.)
- Network services
   (business networks, distribution of Internet/mobile content)
- System support services
   (maintenance and surveillance services for information systems and networks)
- Security solutions (installation of information systems and networks)

#### Systems platform

#### **System Product**

- Full range of servers (mainframe, UNIX, mission-critical x86 servers and other x86 servers)
- Storage systems
- Software (operating system, middleware)

#### **Network Products**

- Network management systems
- Optical transmission systems
- Mobile phone base stations

### Medical and Pharmaceutical Device Company



Mission is to manufacture products to improve the quality of patient care while also helping healthcare professionals bring time and cost efficiencies to their practice.

Sharing expertise across hospitals is helping to set the highest standards for enhancing patient and healthcare professional in:

- Safety
- Reducing medication errors
- Protecting the environment
- Providing quality clinical training, best practices and information support for healthcare professionals

#### WLC Management is Essential for Success





#### It's All in the Numbers



- ➤ 25 wireless LAN controllers (WLC) each manage up to 557 access points
- > Total of 1286 APs are managed
- Over 1400 alarms in first 7 days
- > 60 alarms being suppressed
- > 135 million events in 45 days
- > 60 million events from 8 alarm types



# Analyze Alarm Types in Pre-Production

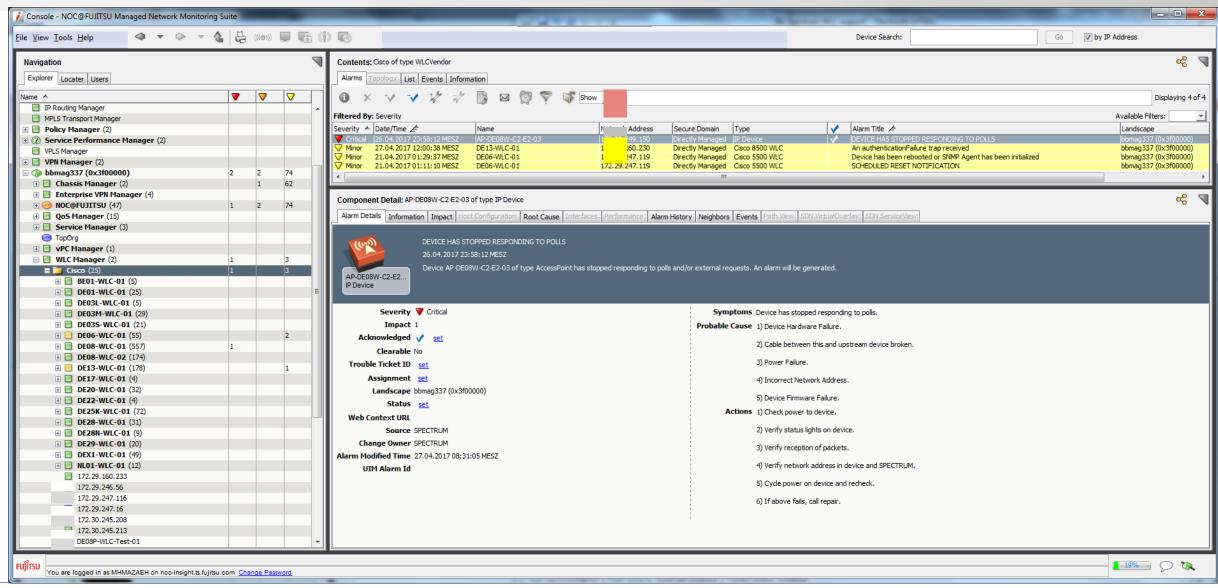


В	C	E	F	4
Туре	Alarm Title	Abschalten	Anmerkung	
6760010	ACCESS POINT INTERFACE DOWN EXCEEDED CONFIGURED THRESHOLD	ja		
6760002	ACCESS POINTS DISASSOCIATED FROM CONTROLLER EXCEEDED THRESHOLD	ja		
210e0c	AP ASSOCIATED SUCCESSFULLY AFTER REBOOT	ja		
210e14	AP CLIENT RADIO THRESHOLD EXCEEDED	ja	1	
210e13	AP INTERFACE DOWN	ja		
4b6005e	BSN RADAR CHANNEL DETECTED	ja		:
6760008	DOWNLOAD VOLUME FOR CLIENT EXCEEDED CRITICAL THRESHOLD	ja	Über Schwellwerte abgeklemmt. Braucht als Alarm nicht ausgeschaltet weren	
6760009	DOWNLOAD VOLUME FOR CLIENT EXCEEDED MAJOR THRESHOLD	ja	Über Schwellwerte abgeklemmt. Braucht als Alarm nicht ausgeschaltet weren	
210e54	KTS VOIP CALL FAILURE	ja		
4b60007	LRAD_DISASSOCIATED	ja		
2 4b6000c	LRADIF_INTERFERENCE_PROFILE_FAILED	ja		
4b6000a	LRADIF_LOAD_PROFILE_FAILED	ja	1	
4b6000b	LRADIF_NOISE_PROFILE_FAILED	ja		]
Cat38xxStack	OSPF INTERFACE STATE CHANGE	ja		]
210d26	RADIUS REQUEST TIMEOUT	ja		1
210d23	RADIUS SERVER GLOBAL DEACTIVATED	ja		П
3 210d25	RADIUS SERVER WLAN DEACTIVATED	ja		
4b60003	STATION_ASSOCIATE_FAIL	ja	,	1
676000b	UPLOAD VOLUME FOR CLIENT EXCEEDED CRITICAL THRESHOLD	ja	Über Schwellwerte abgeklemmt. Braucht als Alarm nicht ausgeschaltet weren	1
676000c	UPLOAD VOLUME FOR CLIENT EXCEEDED MAJOR THRESHOLD	ja	Über Schwellwerte abgeklemmt. Braucht als Alarm nicht ausgeschaltet weren	1
6760006	UPLOAD VOLUME FOR CLIENT EXCEEDED MINOR THRESHOLD	ja	Über Schwellwerte abgeklemmt. Braucht als Alarm nicht ausgeschaltet weren	1
4b6002e	STATION_ASSOCIATE	ja no his		1
210e2c	CISCO LWAPP DOT11 CLIENT ASSOC TRAP	ja no his		1
210e27	CISCO LWAPP DOT11 CLIENT MOVED TO RUN STATE	ja no his		1
210e2b	CISCO LWAPP DOT11 CLIENT SESSION TRAP	ja no his		1
210e2e	CISCO LWAPP DOT11 CLIENT MOVED TO RUN STATE NEW TRAP	ja no his		1
210e2d	CISCO LWAPP DOT11 CLIENT DE AUTHENTICATED TRAP	ja no his		1
4b60001	STATION_DEAUTHENTICATE	ja no his		1
4b60000	STATION_DISASSOCIATE	ja no his		
210e5b	RRM RF GROUP MEMBER REMOVED	ja	1	1
210e5a	RRM RF GROUP MEMBER ADDED	ja		1
210e08	RADIUS ACCT SERVER UNAVAILABLE	ja		1
210d38	MOBILITY ANCHOR CONTROL PATH DOWN	ja		1
				1

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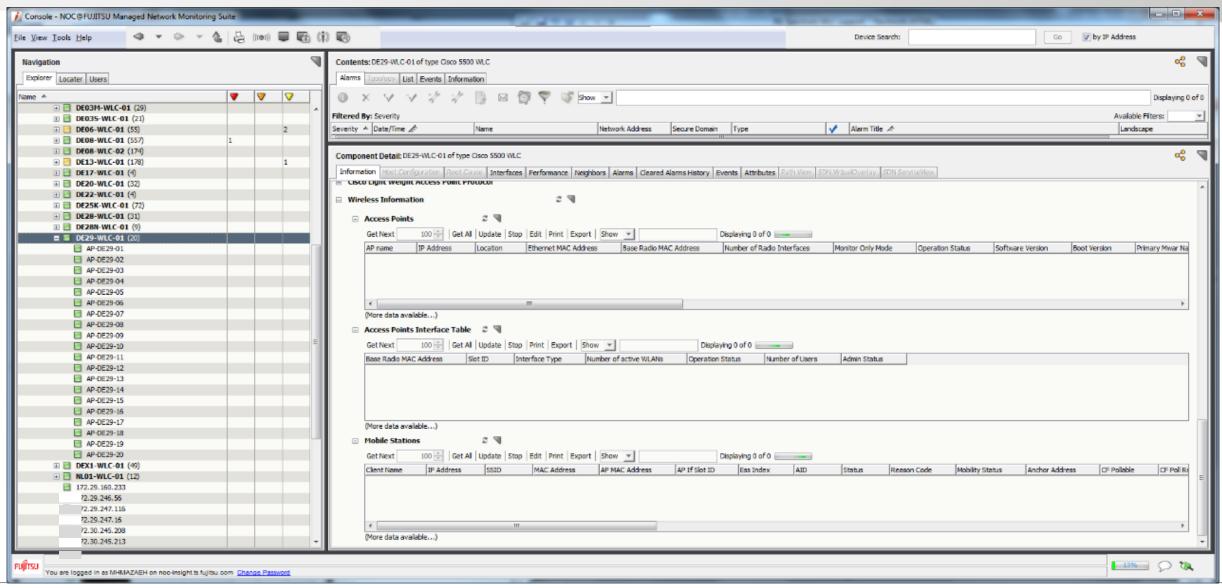
#### **DHCP Addresses for AP**





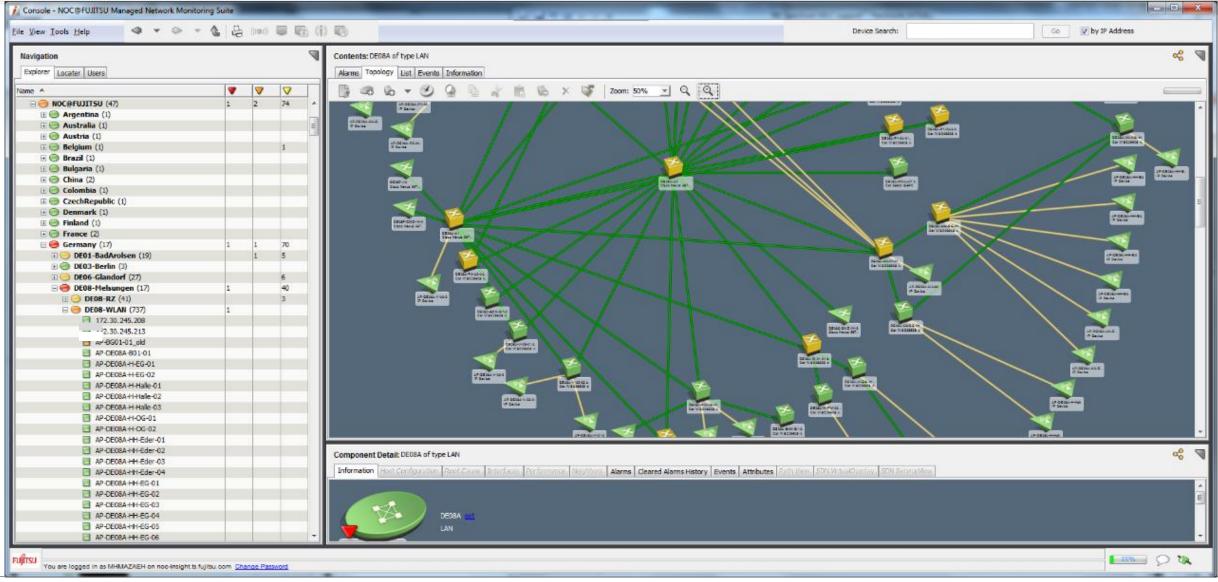
#### Wireless Information at WLC and AP





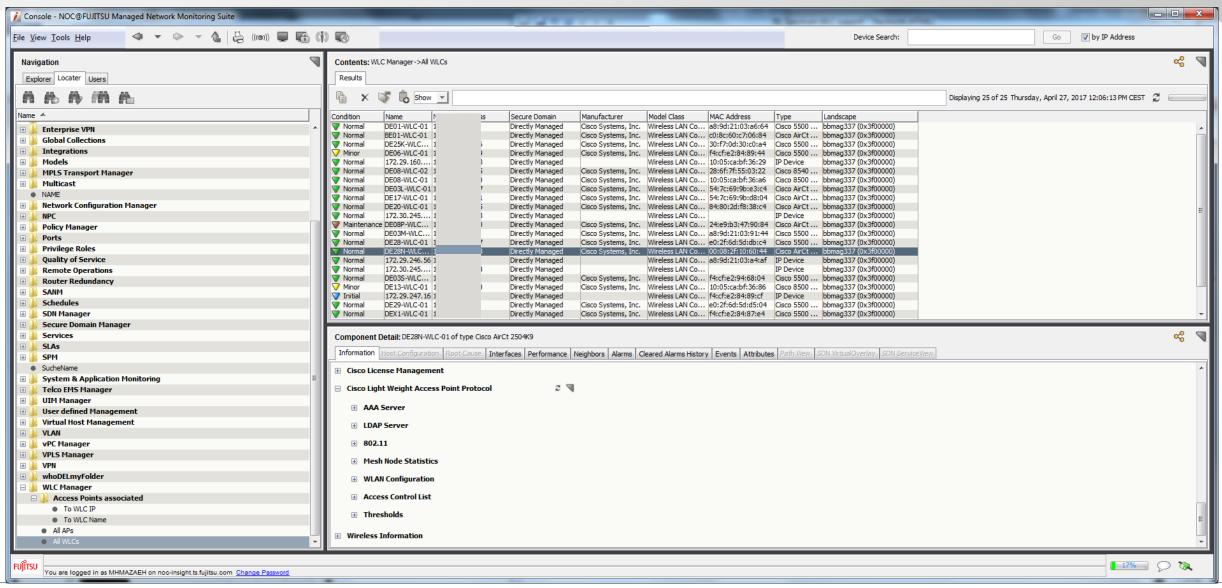
#### AP and WLC Container





## Light Reporting





### Open Topics





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## Fujitsu Data Center Management and Automation

#### Global Demo Center - Frankfurt/Germany

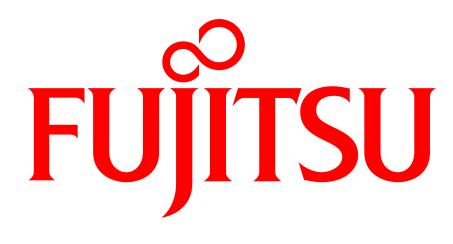


# Discover the Fujitsu DCMA portfolio live – and experience what we can do for your enterprise.

- Based on comprehensive CA portfolio in the area of plan, deploy, build, test, operate& secure
- Data Center Automation with process automation technology
- Service Quality Management
- Unified IT infrastructure management
- Data denter infrastructure management
- Fujitsu ServerView

Request your demo onsite or remote at <a href="http://www.fujitsu.com/fts/solutions/business-technology/data-center-management-automation/demo-center/form.html">http://www.fujitsu.com/fts/solutions/business-technology/data-center-management-automation/demo-center/form.html</a>





shaping tomorrow with you

# Thank you