



FORTINET[®]

Personalized Medicine & Security

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HEALTHCARE HAS TRANSFORMED...

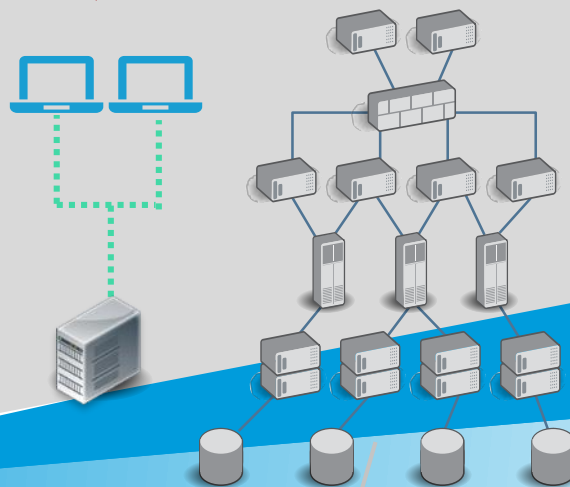


THE NEXT GENERATION OF SECURE HEALTHCARE



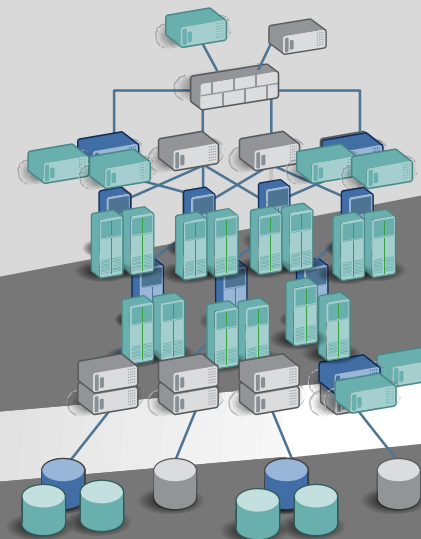
Paper Driven Processes
Hardcopy only and stored manually.
Written prescriptions manually
walked to Pharma.

YESTERDAY



Electronic Driven Processes
Electronic records transform care
from client/server environments to
new web architectures. Complexity
increases e.g. 1000's of servers,
1000's of network devices.

TODAY



Virtualization and Mobile Devices
Exploding complexities as servers and devices
virtualize and move about at will between data
center and cloud. A much more dynamic
environment to secure.

TOMORROW

THE DELIVERY OF CARE HAS TRANSFORMED...

MORE TECHNOLOGY



ENHANCED ACCESS



TARGETED CARE



...YET HEALTHCARE IS STILL NOT SECURE

SHARING GENOMIC DATA

- Digitizing patient record
- Sharing data across HLS ecosystem
- Data-based collaborative care
- Analytics to enhance care
- Electronic registries for population health
- Personalized medicine
- Medical devices and wearables

DATA EXPLOSION
Unprecedented Security Risk





10x

A **medical record** is worth **ten to fifty times** more than a credit card number



2015 GLOBAL HEALTHCARE BREACH ENVIRONMENT

110

million **medical record** breached in top **ten incidents** in US in 2015

60

% YoY increase of **global incidents** among **healthcare payers** for 2015

34%

% of all **breaches worldwide** are from the **healthcare industry**

17 million **medical records** compromised in top **Korean breach event**

National Health Service top UK breach offender for 2014

\$3.79

Million dollars – average total cost globally for data **breach**

VERIZON BREACH REPORTS TRENDS

95%

OF MALWARE TYPES SHOWED UP FOR LESS THAN A MONTH, AND FOUR OUT OF FIVE DIDN'T LAST BEYOND A WEEK.

70–90%

OF MALWARE SAMPLES ARE UNIQUE TO AN ORGANIZATION.

50%

NEARLY 50% OPEN E-MAILS AND CLICK ON PHISHING LINKS WITHIN THE FIRST HOUR.

23%

OF RECIPIENTS NOW OPEN PHISHING MESSAGES AND 11% CLICK ON ATTACHMENTS.

60%

IN 60% OF CASES, ATTACKERS ARE ABLE TO COMPROMISE AN ORGANIZATION WITHIN MINUTES.

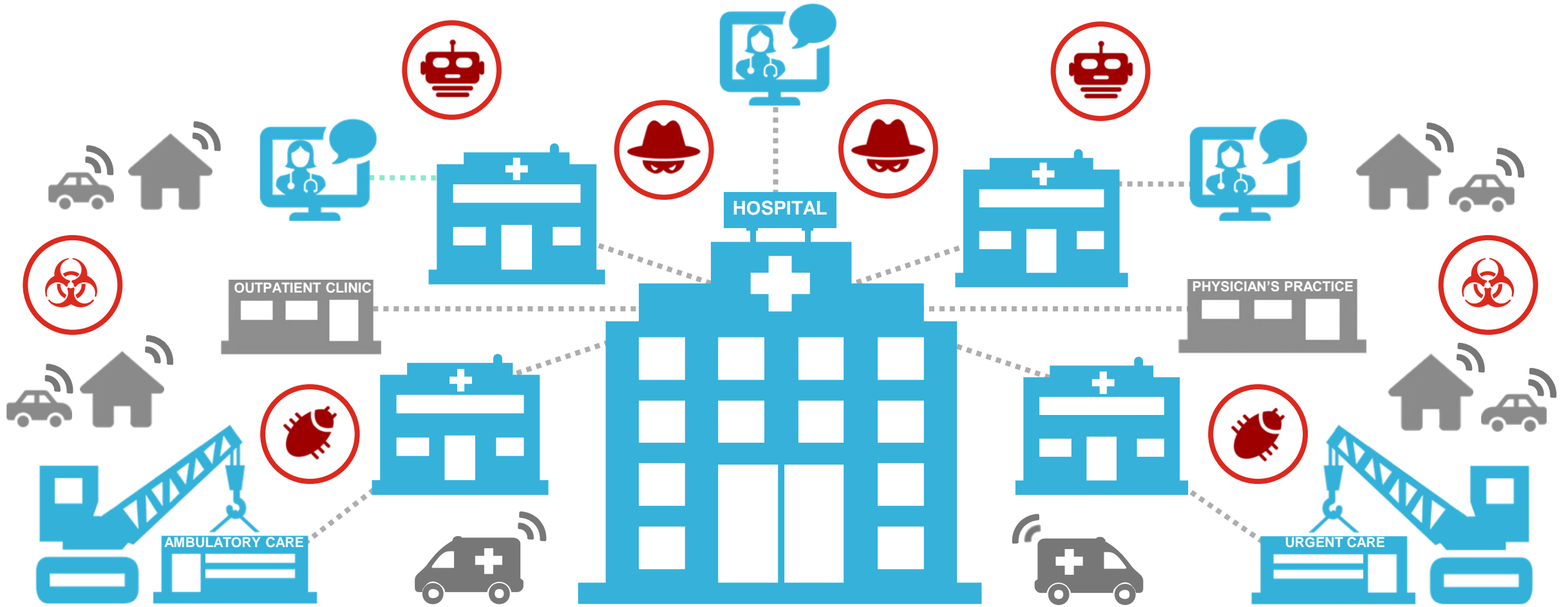


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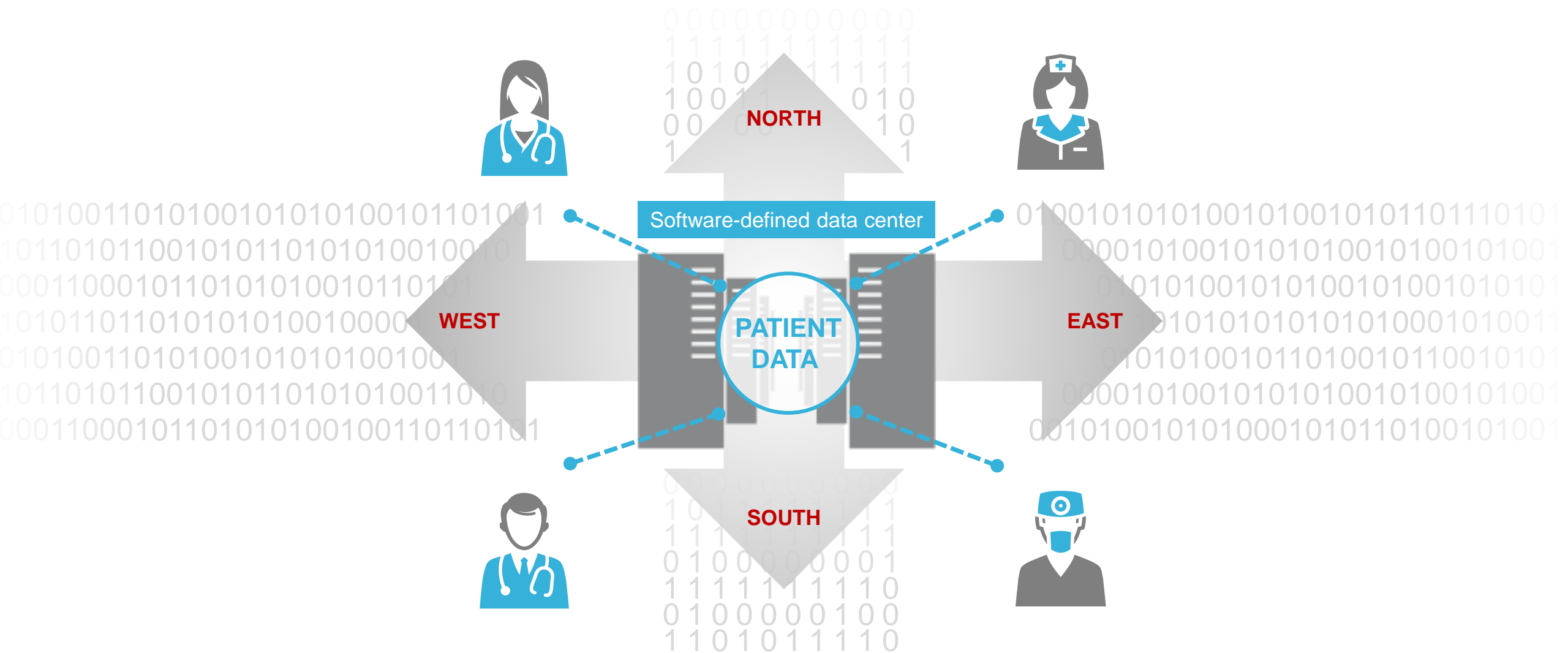
**Average number of
days attackers were
on a network before
detection**

RESEARCH NEEDS:

HIGH SPEED INTERCONNECTIVITY WITHOUT COMPROMISING SECURITY



CARE DELIVERY NEEDS: CLINICIAN ACCESS WITHOUT COMPROMISING SECURITY



SECURE CLINICAL FRAMEWORK

Control all network security with one operating system and single pane of glass management

