Cybersecurity & Risk Services – Capability Note

14 Feb 2018

Aerospace Reimagined
Aerospace & Defense Vertical
Cybersecurity & risk services - Overview & market strategy

- Risk & Compliance
- Cyber Security Consulting
- Security Architecture
- Application Security
- Data Privacy & Protection
- Identity & Access
- Infrastructure Security
- Cloud Security
- Mobile Security
- IoT Security
- Industrial Security
- Physical Security

- 593+ CUSTOMERS
  Fortune 1000 enterprises

- 7500+ PRACTITIONERS
  Cyber sec. & Risk expertise

- TOP 5 WORLD LEADER
  End-to-end provider

- 10 PLATFORMS
  For cyber defence

- VENTURE INVESTMENTS
  And strategic partnerships

- Consulting & Strategy
  - Cybersecurity Maturity Assessment
  - Data Privacy Assessment

- Design & Implement
  - Prevention & Protection Of Digital Trust
  - Protection & Privacy Of Data
  - Integrated Risk Reporting

- Managed Services
  - Managed Security Services
  - Automated Incident Response & Breach Detection
  - Cybersecurity Intelligence

- As-a-service
  - Cloud Security
  - Cyberdefense Center

- 28.9% YoY GR
- 579 MN FY 2016-17
- 12 Global SOCs
- 10 Security Awards in 2017

- $1 BN
  2020 VISION

Strategy Levers
- Enable Digital Trust
- Expand Cyber Intelligence
- Modernize Core
- Elevate Security
- Collaborate to WIN

Simplify | Secure | Sustain
Our Vision

“Wipro’s Cyber Security & Risk Services will be the partner of choice for cyber risk & security by helping customers Simplify Digital Risk Management, Secure Information and Sustain Business Resilience”

Our Ambition

Double Cyber Security & Risk Services Market Share by FY20
Defining our vision, ambition & strategic priorities

Simplify Digital Risk Ecosystem | Secure Information | Sustain Business Resilience

Cybersecurity & Risk Solutions

1. Enable Digital Trust
   - Prepare, Prevent, Protect the enterprise, consumer, device, user and things - Change
   - Protection and Privacy of data in a boundary-less ecosystem - Run
   - Enable business continuity through Digital Resilience - Change
   - Integrated Digital Risk Reporting across business channels - Run
   - Cloud Security Solutions - Change

2. Extend Cyber Intelligence
   - Localization - Change
   - Cybersecurity Intelligence leveraging cognitive computing – Change
   - Integrated Threat Management – Change

3. Modernize Core
   - Automated incident detection & response - Run
   - Productized Services - Run
   - Competency build – Run
   - Expand SIC Platform – Run
   - MSS 1.0 to MSS 2.0 - Run

4. Elevate Security
   - Integrated Cybersecurity Solutions - Run
   - Cyber Security Consulting – Change
   - Domain Solutions – Change
   - Localized delivery – Regional Delivery leaders & Security Advisors – Run
   - New Geography Growth: Drive deeper penetration and mining in newer geographies like LATAM and Canada

5. Collaborate to Win
   - Collaboration with security ecosystem partners
   - M&A, Wipro Ventures, Academia Partnerships
   - Integrated services and solutions collaborating with business units, practices and service lines

Bangalore, Chennai, Pune, Bhubaneswar, Mysore, Kochi, Delhi, Dallas etc.
Wipro Cyber Defense Platform

WIPRO CYBER DEFENSE PLATFORM

Cyber Intelligence Gateway

Risk Intelligence Platform

Integrated Identity Cloud

Data Protection & Governance Platform

Security Assurance Platform

Security Intelligence Platform

Security Management Platform

Physical Security Convergence Platform

Cloud Access Security Broker

Threat Advisory Services

Controls

Identities

Data

Application

Infrastructure

Mobility

Cloud

Operational Technology

Internet of Things

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## Cybersecurity & Risk Services

### Risk Intelligence Platform
- 3rd Party Risk Management
- Application Risk Management
- Control Testing
- Compliance as a service
- Business Continuity Management
- ERP As A Service

### Integrated Identity
- Wipro Identity Cloud
- Digital Identity, Access & Federation
- Identity & Access Governance
- Advanced Authenticatio
- Privileged Account
- Certificate Lifecycle

### Data Privacy & Governance
- Data Leak Prevention
- Privacy Inventory & Management
- Data Obfuscation
- Data Encryption
- Database Monitoring
- Data Discovery & Classification

### Cybersecurity Intelligence
- Security Monitoring & Analytics
- Incident Response Automation
- Cyber Threat Intelligence
- Advanced Malware Operations
- East-West & North-South Threat Hunting
- Digital Forensics

### Cybersecurity Assurance
- Threat Modelling
- App & Infra Vulnerability Assessment
- Secure Code Reviews & Training
- Static & Dynamic Sec. Testing
- Penetration Testing
- Vulnerability Remediation

### Physical Security Convergence
- Physical Security Info. Mgmt.
- Physical Identity & Access Mgmt.

### Security Management Platform
- NW & Perimeter Security
- Server Infrastructure Security
- Secure Collaboration
- Security Orchestration
- Security Process Automation
- Security Process Automation

### Consulting
- Implementation
- Managed Services
- As-a-Service
Key Tenets of Cybersecurity & Risk Services

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### Transparency
- Security specific **performance metrics** (SLAs, BLAs & KPIs)
- **Catalogue based services** and Rate Card with **consumption based pricing model**
- Visibility through **Integrated Reporting**

### Flexibility
- **Competence driven** CoE-based **Flex-pool of security consultants**
- **Bubble Support Team** for Peak loads
- **Contextualized Program Governance Model**
- **Hybrid delivery models** aligned to client objectives:

### Innovation
- **Integrated platform** for Security
- **Proven frameworks & productized services**
- Customized **Security as a Service Models**
- **Co developed services** with product OEM’s & Cloud security partners

### Expertise
- Specialization in **advanced & emerging technologies**
- Integrated **Knowledge Management**
- **Security experience Centers** across Security OEM product’s
- Leading **industry and Technology Certifications**

### Delivery Excellence
- **Standardization & Repeatability**
- Targeted **Service Improvement Plans** with defined outcomes & benefits
- Process **Automation**, audit automation, compliance monitoring automation
- Proactive & Institutionalized staff productivity & effectiveness measurement

### Cost Optimization
- **Business Centric as a Service Models**
- **Outcome based cost models**
- **Element driven costing** for predictability
- **CapEx to OpEx conversion** through Wipro owned tools delivery
- **Near shore & Offshore Leverage** for cost arbitrage
### Risk Intelligence Platform
- Risk Intelligence Center
- IT Risk Assessment
- Cloud Risk Assessment
- Risk Operations Management
- Vendor Risk Management
- Disaster Recovery
- Business Continuity Management
- Integrated Risk Reporting
- Security & Authorization
- ERP Security Assessment
- SAP GRC
- Oracle GRC
- GRC Automation
  - RSA Archer
  - IBM OpenPages
  - MetricStream

### Integrated Identity Cloud
- Wipro Identity Cloud
  - Identity as a service
  - Federated SSO as a Service
  - Advanced Authentication as a Service – 2FA
  - On-boarding of applications
- WAGON – Wipro Access Governance Onboarding framework
- Service Delivery Platform
- Managed User Access Management
- Certificate Lifecycle Management (CLM)
  - CLM Automation tool sets based on Microsoft PKI
  - Automate Certificate Issuance
  - Automate Certificate Renewal
  - Automate Certificate expiry notifications
  - Integration with AD and MSPKI
- Managed Privileged Account Management (PAM)

### Enterprise Data Governance Platform
- Security Data Lifecycle Management
- Data Privacy and Compliance
- Outsourcing Data Protection
- Managed Data Leak Prevention
- Database Monitoring
- Encryption Solutions
- Managed Enterprise Data Obfuscation
- Data Privacy Assessment
- Data Privacy Compliance Frameworks
- IT Risk Office
- Compliance
  - ISO 27001, PCI-DSS 3.1, SOX / SSAE 16, NERC/FERC, FDA
  - IT Common Compliance Framework
  - Compliance as Service (CCS)
  - Fraud Risk Management (Apollo)
  - Internal Control Assurance

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**Investing in Innovation through Security Platforms (Part 1 of 2)**

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Investing in Innovation through Security Platforms (Part 2 of 2)

Security Intelligence Platform
- Cyber Threat Management
- CSIRT – Incident Response
- Advanced Malware Protection
- Advanced End Point Protection
- SOC Consulting
- SIEM Consulting and Implementation
- DDOS Protection Services
- Security Analytics
- Threat Intelligence
- SIC as a Service
- SIC Cloud Security Broker
- Cyber Security Defense
- Incident Response
- Forensics

Security Assurance Platform
- Secure SDLC Consulting
- Threat Modeling
- Cloud Security Assessments
- Secure Code Review
- Web Penetration Testing & Vulnerability Assessment
- Network Pen Testing
- Mobile Forensics
- SAMM Consulting
- Security Assurance Services
- Vulnerability Management as a Service
- Mobile Application Security Testing

Security Management Platform
- UAM Automation
- Sec Ops – Network Automation
- SecOps – End point
- Physical Security Convergence
- Managed UAM
- Security Operations – Network, End Point, Host, Gateway, Applications
- Platform Security Compliance
- Security Operations Automation as a Service
- UAM Automation and Shared Services
- Encryption
- PKI
- Risk Based Authentication
- IDAM Support

Physical Security Convergence
- Physical Security Information Management Solution (PSIMS)
- Physical Identity Access Management (PIAM)
- Vehicle Tracking Solution
- IP Video Surveillance
Investing in Innovation through Frameworks & Products

- ASTRID Framework
- SDP (Solution Delivery Platforms)
- AppON (Faster Application Onboarding onto IAM Tool)
- UAM (User Access Management) Automation BOTs/Tool (20 Bots)
- PSIM – Physical Security Information Management
- WAGON (Wipro Access Governance Onboarding) Framework
- WIAT – Wipro Identity Automation Tool
- EDO – Enterprise Data Obfuscation
- Unified Control Framework
- CSC – Cloud Security Center
A FRAUD RISK SOLUTION THAT USES EMAIL ADDRESSES AS AN UNIQUE DATA-POINT AND USES MILLIONS OF FRAUD SIGNALS AND DATA SCIENCE

REAL-TIME CONTINUOUS THREAT MONITORING ACROSS THE NETWORK AND THE DATA CENTER TO INSTANTLY IDENTIFY ANY PHASE OF A CYBER ATTACK.

DEEP, DARK WEB AND CLEAR WEB MINING WITH ACTIONABLE INSIGHTS INTO ENTERPRISE SPECIFIC ALERTS

AN AI-DRIVEN ENTERPRISE BOT PLATFORM THAT DRAMATICALLY REDUCES THE TIME NEEDED TO DESIGN AND DEPLOY ENTERPRISE BOTS TO CORPORATE EMPLOYEES AND THEIR CUSTOMERS.

A SECURITY AUTOMATION AND ORCHESTRATION PLATFORM THAT INTEGRATES WITH THE ENTERPRISE SECURITY TECHNOLOGIES TO AUTOMATE INFORMATION EXCHANGE, ACTIONS TO DRIVE CYBER INCIDENT RESPONSE, INVESTIGATION AND REMEDIATION

WIPRO VENTURES COMPANIES
Investing in People through Security Experience Center…

- **130,000+** hours of Cybersecurity Trainings per year
- **5500+** Security certifications including CISSP, CISA, CISM, CRISC, ISO 27001, CEH, CBCP, RSA Archer, Check Point, CISCO, Juniper, PAN, TIM, IBM Qradar, Arcsight, CyberArk, and many more …
- **45 +** Security Skill Experience Centers and over 1200 Use Cases
- **2800+** people trained every quarter

Competency in **110 technologies** supported across **7500 Consultants**
Investment in Global Footprint through Cyber Defense Centers

New Cyber Defense Centers in FY' 16

Global Delivery Capabilities

24x7 Operations | 5000+ Cyber Defence Specialists
### Some of our Key Engagements...

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<tbody>
<tr>
<td>Global Pharmaceutical Giant</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>38000 users / 57000 endpoints</td>
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<td>Global Bio-pharma Company</td>
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<td>★</td>
<td>★</td>
<td>★</td>
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<td>★</td>
<td>★</td>
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<td>68000 users / 69000 endpoints</td>
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<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>35000 users / 36500 Endpoints</td>
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<td>★</td>
<td>★</td>
<td>★</td>
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<td>★</td>
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<td>320,000 users</td>
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<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>140,000 users / 6000 apps</td>
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<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>95000 users / 110,000 endpoints</td>
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<tr>
<td>US based Speciality Retailer</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>180,000 internal users / 2 million consumers</td>
</tr>
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Value our customers experience...

Global **Risk Dashboard** for Business Leaders enabling **Risk-based** decisions

Near **Real-time View** for CISOs on emerging threat reduction

20-60% faster* security incident response and remediation through automation

At least 44% reduction in manual effort via built-in automation in **As-a-Service** solutions

23-37% operational security spend optimization, releases funds for business centric investments

Easy access to expertise in the region

Rationalized security controls

Improved Security Processes

Test-Once and Comply-to-Many

Catalogue of security services

Risk advisory to the operational Infra and Apps teams

Single point of accountability for security service management

Future-aligned and integrated Security Architecture

24x7 security operations

* Based on maturity-level of customer
Gold Winner (Vulnerability Assessment, Remediation and Management)
Integrated Security Assurance Services (iSAS)
Info Security Product & Service Excellence Award

Gold Winner (Managed Security Services)
Wipro Managed Security Services
CIO Choice Awards 2015

Finalist (Best Managed Security Services)
Wipro Managed Security Services
SC Awards 2015 Europe

Gold Winner (NERC/FERC CIP Compliance)
IronGate Security Solution for Industrial Networks
Info Security Product & Service Excellence Award

Gold Winner (SaaS/Cloud Solution)
Wipro Identity Cloud
Info Security Product & Service Excellence Award

Gold Winner (Risk Management Services)
Risk Intelligence Center
Info Security Product & Service Excellence Award

Excellence in Managed Security Services 2015
Wipro Managed Security Services
IBM Business Partner Awards

Winner (Innovation in Outsourcing)
NextGen Security Intelligence Center
Aecus Innovation Awards 2015

Gold award for the Year 2016 in the Information Technology Services category
Wipro Identity Cloud Version 1.55
2016 Golden Bridge Business & Innovation Awards

Bronze award for the Year 2016 in the Information Technology Services category
Security Intelligence As A Service
2016 Golden Bridge Business & Innovation Awards

Partner Award for outstanding Contribution 2015-16
Cisco Partner Award in APJC
Cisco Security Connection 2016

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Wipro's MSS delivery approach is highly customizable to customers’ requirements and existing technology solutions, but can also bring preferred partner solutions to a customer as needed.

Gartner Inc
Magic Quadrant for Managed Security Services 2016

Wipro goes beyond strategic outsourcing with multitenant MSS. Wipro offers global delivery of a wide array of managed and monitored security services, with some regional differences.

Hfs Blueprint Grid, Managed Security Services 2017

Wipro is growing its business through reliability and strong delivery. Customers looking for solid value for competitive cost and committed workforce should consider Wipro.

Vendor Landscape: Global Managed Security Services, 2017

Forrester Research

Customers have rated Wipro's services as very good. Wipro regularly Wipro's RM consulting competency is part of its cybersecurity and risk service practice. Its experience in RM consulting includes design and implementation of its proprietary frameworks, such as the risk intelligence framework, business resilience framework and continuous control monitoring framework. These frameworks help manage risk and compliance proactively on a near-real-time basis, leveraging risk analytics models.

Gartner Inc

Wipro has made strategic investments through its venture capital arm in new security products, such as Vectra Networks and IntSights, which have been adopted by its MSS offerings (e.g., Threat Hunting as-a-Service).

Gartner Inc
Magic Quadrant for Managed Security Services 2016


Wipro’s Customer Dedicated Delivery Centers and Share Delivery Centers are spread across, India, US, Europe and UK. Wipro has six Security Intelligence Centers located in India.

Wipro has good customer service levels and as a IT outsourcing provider, Wipro is able to deliver multi-skilled resources delivered as a single team. Wipro tends to have attractive pricing. Organizations looking for a service provider with competitive pricing should consider Wipro.

WIPRO POSITIONED AS A LEADER IN HFS BLUEPRINT FOR DIGITAL TRUST AS A SERVICE, 2015

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“Wipro's customers think very highly of Wipro, with its MSS projects receiving high satisfaction ratings from customers, especially on the delivery front and adherence to SLAs”

IDC
MarketScape, MSSPs, Asia-Pacific, 2015

Wipro is driving ecosystem security through integrated security and digital frameworks

HFS Research
Digital Trust as a Service Blueprint, 2015

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HFS Research
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Cybersecurity & Risk services

80,000 Sites of a Major Indian Telecom Provider Secured through Physical Security Convergence Platform to aggressively expand mobile service in PAN India
Cybersecurity & Risk services

400 Million+

Lines Of Code reviewed for security vulnerabilities and

100+

Threat Models Prepared

for a Leading Retailer in the US through

Security Assurance Platform

for him to go

Digital
Cybersecurity & Risk services

23 Telecom Circles
of a Major Indian Telecom Provider are
Certified for BS 10012 standard & DSCI Privacy
for safeguarding personal information of its customers

40 +
Privacy Impact Assessments and PAN India circle audits for data privacy through
Enterprise Data Governance Platform
Cybersecurity & Risk services

100+ Billion Events Processed Per Quarter
4000+ Offenses Triggered
140+ Incidents investigated
for a privately held Telecom Provider in USA having parent company in UK through
Security Intelligence Platform
Cybersecurity & Risk services

Managed
160K+ Corporate Users
200K + External users
300+ Enterprise Applications
250K+ AD Objects

For one of the fortune 100 global manufacturing company through

Integrated Identity Cloud
Cybersecurity & Risk services

Managed

220 + operational firewalls

50 + customer’s vendors operating across the globe resulting in

Increased firewall compliance

for a leading tobacco company headquartered in London through

Security Management Platform
Cybersecurity & Risk services

Improved Compliance for PCI DSS & CACIB Security framework

and

Improved Operational Efficiencies and Reduced cost of security threat management

for one of the Corporate and Investment Bank headquartered in Paris through

SecureEye
Cybersecurity & Risk services

50% of Australia’s Internet Banking Secured
Cybersecurity & Risk services

$42Bn worth Retail Transactions for a single US retailer Secured
Every 4 out of 5 Payment Card Transactions globally Secured
Cybersecurity & Risk services

Entire Postal Network

Operations of Canada

Secured
Cybersecurity & Risk services

3 of Top 5 Global Pharma Companies Secured
Cybersecurity & Risk services

56 Mn +
US Healthcare Information Records Secured
Thank You

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