DATA FLOW SOLUTION

DATASHEET

Arrow is an Angora brand

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ARROW DATA FLOW SOLUTION

Data becomes the most valuable corporate asset of modern times. Company values are measured by the amount of relevant data, while an ignoring leakage may corrupt your reputation in the blink of eye, so all your investment in time, money and effort would be insignificant.

On the other hand, we are living in an era of communication. Very fast, reliable and integral communication is todays de facto standard, which separates winners from old fashioned strugglers.

We need to find an exquisite balance between data security and communication, so daily operations should work without compromising corporate values or government, operational performance and military secrets.

Above all security measures, **Arrow**, would provide a secure, guaranteed, and integral delivery of data from a restricted and well protected network to more open and widely accessible zone. With limited physical connection, a single directional flow is created for data transfer. All valuable data would be encrypted, fingerprint cleared and when possible masked before sending on an optional non-ethernet based link.

Arrow modular software architecture and license model provides easy integration and not enforcing unnecessary functions to be bought on day one, and makes hardware replacement in case of higher performance requirement, possible.

Flexible Software Architecture designed by Angora Engineering Team, would allow tailored solutions to be implemented, so you don’t need to get stuck in a pre-defined set of functions.

Angora promises to deliver. Your requirements need custom solutions, and no one should force you to adapt the solution provided, instead the solution must adapt to your requirements. Different businesses with distinct needs would implement only required functional modules and would be free to ask new protocol deployments, without any additional development costs. Because here in Angora, we know that the way of doing business in different regions, countries and cultures are very different to each other, when it comes to security, there is no one size fits all solution.

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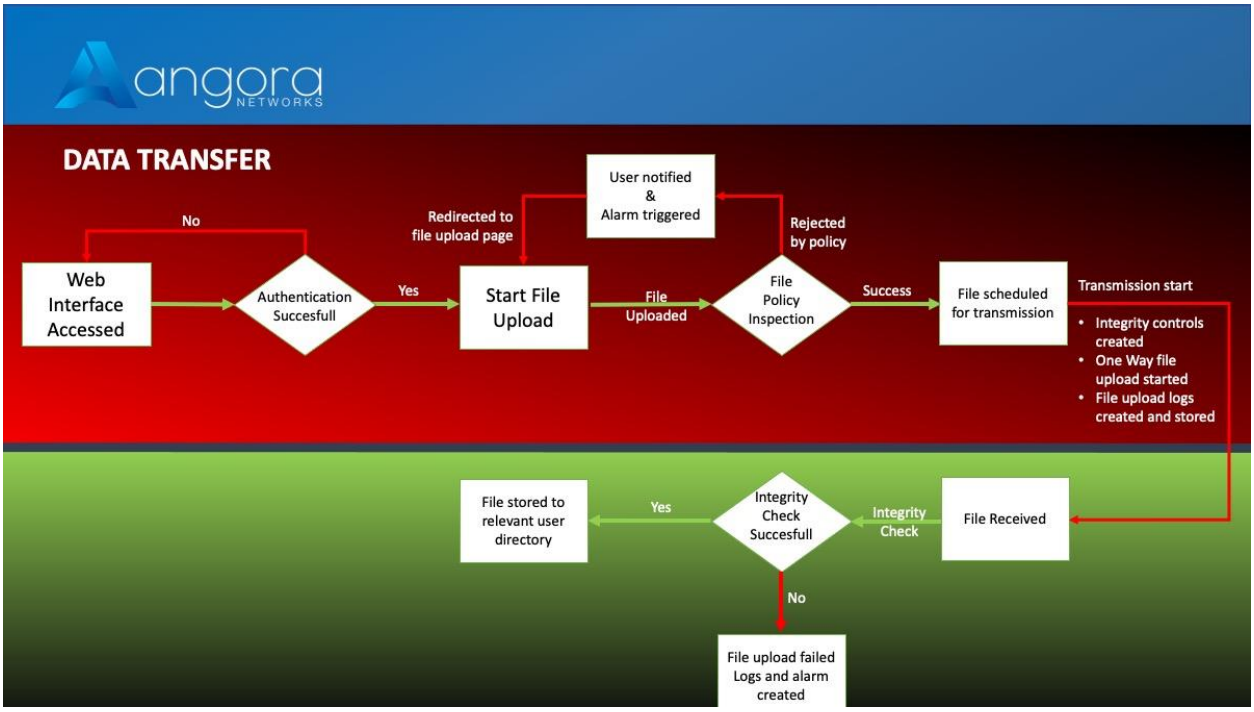
Flexible Deployment

Arrow comes as two sisters. There are two devices which reside on different networks, Guardian and Postman. Guardian is the one who collect the data from within the restricted network, prepare for secure delivery and finally send to its sister. Postman receives the data and share it with final destination or store for relevant users to access and download. Optionally you can deploy multiple Postman and spread the data to more than one destination. Also, different hardware pairs are possible, based on your bandwidth, disk and volume requirements.

Layered Security

Protocol based security measures can be applied to different data flows. Role based operations for users with different privileges within a hierarchical layered structure, can be created. All users are able to define security protocols and prefer to apply data masking and metadata clearing. Administrators or master users can define which protocols and file types is open to transfer and maximum file sizes. All security measures would be applied separately.



Web Based File Transfer Flow

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Wide Protocol Support

There is no limit for data generation on restricted networks. Documents, photos, video surveillance, management systems and even extra sensitive military data may need to be fly outside of restricted networks. Arrow architecture currently supports, File transfers (PDF, DOCX, JPEG etc.), syslog, snmp, scada and open to implement any other data type to be proxied over Guardian to Postman.

Token Based Licensing

Multiple features running on very different hardware type requires an original approach to functional licensing. This problem is solved by defining maximum possible resource available and allocate these resources to specific features. This makes licensing very easy to track and hardware upgrades almost free within appropriate service levels.

Different Hardware Flavors

Hardware is here only to provide the required medium for data flow. If one needs more function, appropriate hardware scaling would be performed. Different devices from a small embedded server, to a large multi-cpu servers are possible to use with same operating and system and management functions.

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PRODUCT ORDERING

SKU	Description
ANW-ARR-BASE	Base license with 10 Functional License Unit (FLU) Include one Guardian unit and one Postman unit
ANW-ARR-OPT	Optical Interface License for Arrow pair
ANW-ARR-RED	Redundancy hardware pair, to be used with high end Arrow devices
ANW-ARR-ADD-25	25 FLU Add-on license
ANW-ARR-ADD-100	100 FLU Add-on license
ANW-ARR-ADD-250	250 FLU Add-on license
ANW-ARR-ADD-500	500 FLU Add-on license
ANW-ARR-DDA-200	Additional 200GB Disk
ANW-ARR-DDA-500	Additional 500GB Disk
ANW-ARR-DDA-1TB	Additional 1TB Disk
ANW-ARR-DDA-2TB	Additional 2TB Disk

FEATURE LICENSES

Feature
Basic File Transfer
Advanced File Transfer
File Protection License
Management Protocols License
API License
10G interface License
User Management
3rd Party Application Support

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SOFTWARE SPECIFICATION

Module	Description
Operating System	Debian based Angora OS
Protocol Support	Web File Transfer, Samba, Syslog, SNMP, Scada, Web API
Security features	PKI Encryption Fingerprint cleaning, data masking, quarantine repository
User Management	Prioritization, user hierarchy, manager/staff binding, user-based feature access, directory services integration, file type, protocol type, quota management,
Logging	Transfer audit, user violation, SIEM integration, alert management, external logging via custom API
Application support	ICAP based Antivirus, antimalware, DLP
Management	Web interface, RestAPI, Mobile App
Customization	Protocol support, logging, tailored solutions

HARDWARE SPECIFICATION

Model	CPU FAMILY	CORE	ETHERNET	SFP	EXPANSION
ANW-ARR-1100	Intel Rangeley	2	4x1Gbps		
ANW-ARR-1200	ARM Cortex	4	1xGbps	1x1Gbps	
ANW-ARR-1400	ARM Cortex	4	4xGbps	2x2.5Gbps	
ANW-ARR-2000	Intel Celeron	4	6x1Gbps		
ANW-ARR-3200	Intel Denverton	2	6x1Gbps	2x10Gbps	1
ANW-ARR-3400	Intel Denverton	4	6x1Gbps	2x10Gbps	1
ANW-ARR-3800	Intel Denverton	8	6x1Gbps	2x10Gbps	1
ANW-ARR-4600	Intel Denverton	16	6x1Gbps	4x10Gbps	2
ANW-ARR-10800	Intel Xeon	8	4x1Gbps	4x10/40Gbps	2
ANW-ARR-11600	Intel Xeon	16	4x1Gbps	4x10/40Gbps	2
ANW-ARR-13200	Intel Xeon	32	4x10Gbps	2x40/100Gbps	2

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