

```
{
  "screen_awareness": {
    "enabled": true,
    "privacy_focused": true,
    "recognition_methods": {
      "app_identification": true,
      "content_type_detection": true,
      "activity_classification": true,
      "text_recognition": true,
      "element_identification": true
    },
    "privacy_safeguards": {
      "no_data_transmission": true,
      "sensitive_content_filtering": true,
      "user_control": true,
      "temporary_processing": true,
      "excluded_apps": ["banking", "healthcare",
"password_managers"]
    },
    "contextual_modes": {
      "browsing": {
        "enabled": true,
        "triggers": ["web browser active", "search activity"],
        "capabilities": ["information enhancement", "related content
suggestions"]
      },
      "social_media": {
        "enabled": true,
        "triggers": ["social app active", "content creation screen"],
        "capabilities": ["caption suggestions", "hashtag
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recommendations", "trend awareness"]
},
"productivity": {
  "enabled": true,
  "triggers": ["document editing", "email composition", "note
taking"],
  "capabilities": ["text enhancement", "formatting
suggestions", "research assistance"]
},
"entertainment": {
  "enabled": true,
  "triggers": ["video playing", "music active", "game running"],
  "capabilities": ["related content", "controls assistance",
"information lookup"]
},
"photography": {
  "enabled": true,
  "triggers": ["camera active", "photo editing", "gallery viewing"],
  "capabilities": ["shot suggestions", "editing tips",
"organization help"]
}
},
"contextual_understanding": {
  "current_context": {
    "app": null,
    "activity": null,
    "content_type": null,
    "screen_elements": [],
    "recognized_text": null,
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"time_in_context": 0
},
"context_history": {
  "max_entries": 10,
  "current_entries": 0,
  "entries": []
},
"context_memory": {
  "short_term": {
    "duration": 300, // seconds
    "capacity": 5
  },
  "medium_term": {
    "duration": 3600, // seconds
    "capacity": 10
  },
  "long_term": {
    "conditions": ["repeated exposure", "explicit save", "high
relevance"],
    "capacity": 50
  }
},
"context_processing": {
  "update_frequency": "on_change",
  "minimum_update_interval": 1, // seconds
  "background_processing": true,
  "priority_when_idle": true
},
"context_handlers": {
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"social_media": {
  "TikTok": {
    "screens": {
      "feed_browsing": {
        "recognizable_elements": ["video player", "like button",
"comment section", "user profile"],
        "detectable_activities": ["watching", "scrolling",
"interaction"],
        "assistance_capabilities": ["trend identification", "content
suggestions", "caption generation"]
      },
      "content_creation": {
        "recognizable_elements": ["record button", "effects panel",
"text tool", "post button"],
        "detectable_activities": ["recording", "editing", "adding
text", "adding effects"],
        "assistance_capabilities": ["effect suggestions", "timing
tips", "trend alignment", "caption generation"]
      },
      "profile_viewing": {
        "recognizable_elements": ["follower count", "following
count", "video grid", "profile bio"],
        "detectable_activities": ["viewing statistics", "watching
profile videos", "reading bio"],
        "assistance_capabilities": ["engagement tips", "content
strategy suggestions", "profile optimization"]
      }
    },
    "content_awareness": {
      "hashtag_detection": true,
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"trend_alignment": true,
"content_categorization": true,
"audience_analysis": true
},
},
"Instagram": {
  "screens": {
    "feed_browsing": {
      "recognizable_elements": ["photo/video", "like button",
"comment section", "user handle"],
      "detectable_activities": ["viewing", "scrolling",
"interaction"],
      "assistance_capabilities": ["caption suggestions", "hashtag
recommendations"]
    },
    "story_creation": {
      "recognizable_elements": ["camera", "text tool", "sticker
panel", "drawing tools"],
      "detectable_activities": ["capturing", "editing", "adding
elements"],
      "assistance_capabilities": ["creative suggestions",
"engagement boosters"]
    }
  }
},
"productivity": {
  "document_editing": {
    "screens": {
      "text_document": {
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    "recognizable_elements": ["text area", "formatting toolbar",
"cursor position"],
    "detectable_activities": ["typing", "formatting", "reviewing"],
    "assistance_capabilities": ["writing suggestions",
"formatting help", "research assistance"]
},
"spreadsheet": {
    "recognizable_elements": ["cells", "formula bar", "sheet
tabs"],
    "detectable_activities": ["data entry", "formula creation",
"analysis"],
    "assistance_capabilities": ["formula suggestions", "data
analysis tips", "formatting recommendations"]
}
},
"email": {
    "screens": {
        "composition": {
            "recognizable_elements": ["to field", "subject line",
"message body", "send button"],
            "detectable_activities": ["writing", "addressing",
"attaching"],
            "assistance_capabilities": ["response suggestions", "tone
recommendations", "follow-up reminders"]
        }
    }
}
},
},
```

```
"contextual_actions": {  
  "suggestion_generation": {  
    "based_on_screen": true,  
    "based_on_activity": true,  
    "based_on_content": true,  
    "based_on_history": true,  
    "suggestion_threshold": 0.7,  
    "max_suggestions": 3,  
    "presentation_style": "unobtrusive"  
  },  
  "proactive_assistance": {  
    "enabled": true,  
    "intrusiveness_level": "minimal",  
    "trigger_threshold": 0.85,  
    "cooldown_period": 300, // seconds  
    "user_control": true  
  },  
  "response_adaptation": {  
    "context_aware_responses": true,  
    "include_contextual_details": true,  
    "adapt_vocabulary": true,  
    "adapt_complexity": true,  
    "adapt_tone": true  
  }  
},  
"ghost_processing": {  
  "screen_capture": {  
    "method": "accessibility_api",  
    "frequency": "on_change",  
    "resolution": "low",
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"storage_duration": 5, // seconds
"processing_location": "on_device_only"
},
"element_processing": {
  "method": "element_tree_analysis",
  "detail_level": "structural",
  "semantic_understanding": true,
  "processing_location": "on_device_only"
},
"ocr_processing": {
  "enabled": true,
  "selective_regions": true,
  "confidence_threshold": 0.8,
  "processing_location": "on_device_only"
}
}
}
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